

The following catalog
has gaps in its page
numbers, or doesn't
have any numbers.
We have chosen to
leave the page
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order that Acrobat
assigns it.



Parts Catalog
DP Series
DR Series
DZ Series
620 - 900kW
PMG GENERATOR SET



General Information

For parts or service, contact the distributor from whom you purchased this equipment or refer to the nearest Authorized Cummins Distributor.

To avoid errors or delays in filling your parts order, always give the full MODEL, SERIAL and ID No. from the nameplate.

For handy reference, insert "YOUR" nameplate information in the spaces below.


		AC Generator Set	
		Model _____	
kw	kva	pf	phase
voltage		amps	
duty		overload	
rpm		hz	
class of insulation		pmg voltage	
field amp max		field voltage max	
generator model no.			
voltage regulator model no.			
ID no.			
generator set serial no.			
BS5000		NEMA	

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Introduction

This Parts Manual applies to the Standard Gen Sets Listed below. The illustrations are arranged in groups of related items, and each part or assembly is identified by a Reference Number. All parts illustrated are typical, and unless otherwise mentioned in the description column the parts are interchangeable between models.

These typical illustrations are subject to change and reflect only the latest replacement parts arrangement. The Right and Left sides of the Set are determined by FACING the FRONT (Engine end) of the Set.

Set Data Table

MODEL IDENTIFICATION	RATING	RPM RATING	BATTERY VOLTAGE
620.0D_JA - */ # @	620,000 WATTS	1500 RPM	24 VDC
750.0D_JA - */ # @	750,000 WATTS	1800 RPM	24 VDC
800.0D_JB - */ # @	800,000 WATTS	1800 RPM	24 VDC
800.0D_KA - */ # @	800,000 WATTS	1500 RPM	24 VDC
900.0D_KA - */ # @	900,000 WATTS	1800 RPM	24 VDC

- * - Voltage Codes follow Model Letter designations.
- # - Specification Number: Number 1 is Standard, all others indicate variations.
- @ - Specification Letter: Letter advances (A to B, B to C, etc) with major manufacturing changes.

Electrical Data Table

*VOLTAGE CODE	VOLTS	HERTZ	WIRE	PHASE	NOTES
H	347/600	60	4	3	
K	120/208	60	12	3	+
	127/220	60	12	3	
	139/240	60	12	3	
	240/416	60	12	3	
	254/440	60	12	3	
	277/480	60	12	3	
Y	110/190	50	12	3	+
	115/200	50	12	3	
	120/208	50	12	3	
	127/220	50	12	3	
	220/380	50	12	3	
	230/400	50	12	3	
	240/416	50	12	3	
	254/440	50	12	3	

+ - The Stators are Reconnectible.

Engine Replacement Parts

The External Engine Components added or modified during the Generator Set Assembly have been identified in this Parts Manual. For Internal Engine Parts and External Engine Accessories not covered herein; refer to the applicable Cummins Engine Parts Catalog.

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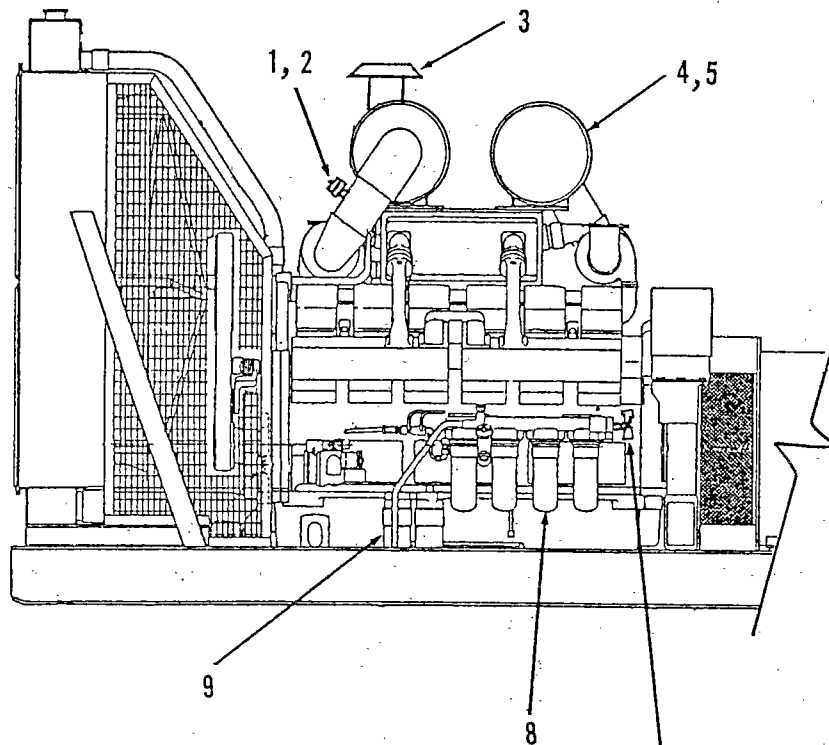
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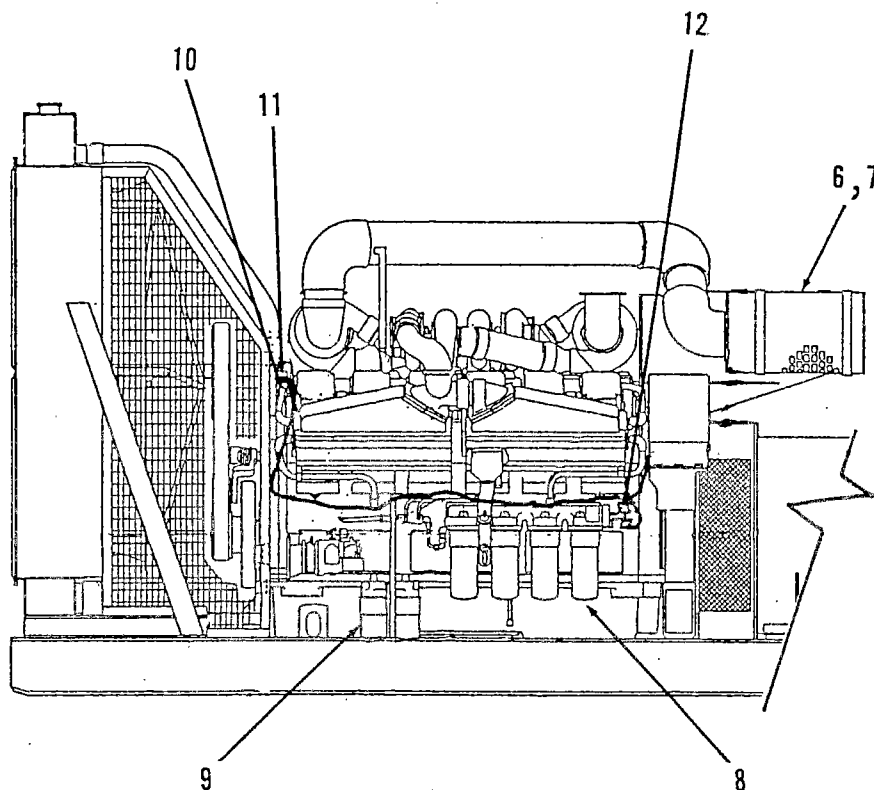
External Engine Components Right Side

D_JA

D_JB



D_KA



External Engine Components Right Side

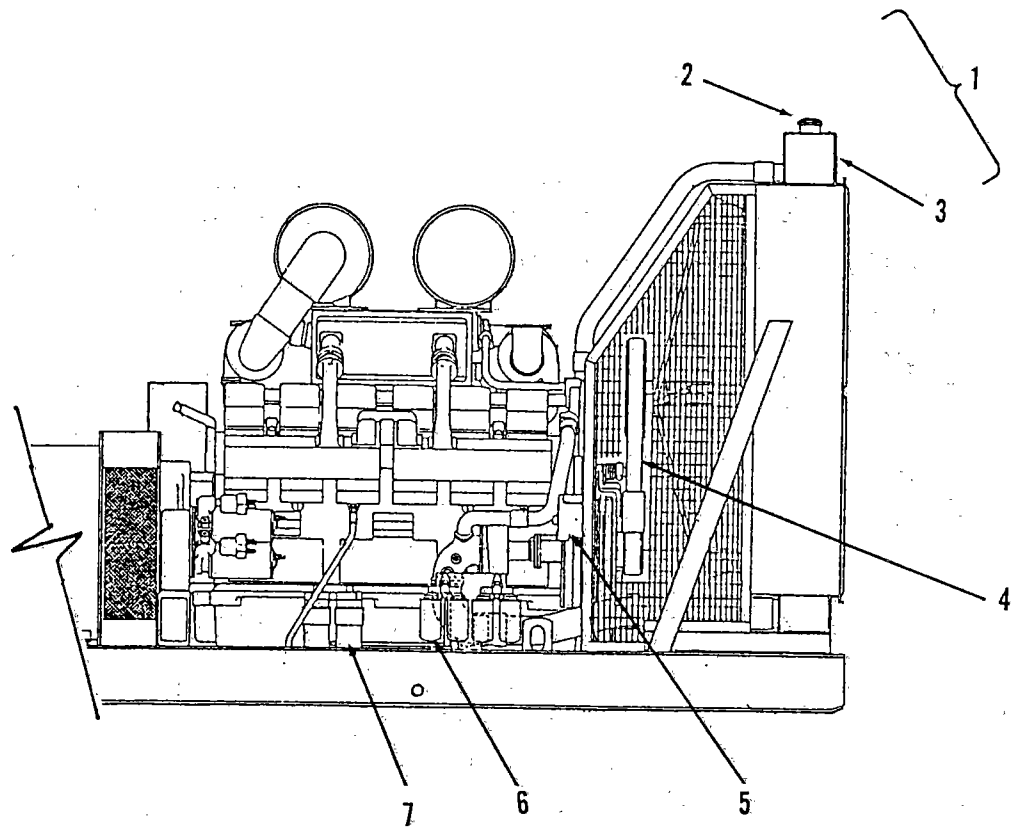
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2226	2	Indicator, Air Restriction (Includes Fitting)	8		3	Filter, Oil [LF670]
2	140-1260	2	Fitting, Male - Hex	9	149-2232	2	Filter, Fuel [FF202]
3			Cap, Air Cleaner	10			Switches & Bushings
	140-2343	4	For 6" Tube Inlet		309-0437	2	Switch, Thermostatic - Shutdown (S2)
	140-2364	2	For 8" Tube Inlet		505-0117	2	Bushing, Reducer - Flush (1/2NPT x 3/8NPT)
	140-2352	2	For 10" Tube Inlet		309-0269	1	Switch, Temperature - Low Engine Temperature (S4)
4			Air Cleaner(Includes Element) D JA, D JB		309-0436	2	Switch, Therostatic - PreAlarm (S6)
	140-2264	2	Indoor		505-0131	2	Bushing, Reducer - Flush (3/4NPT x 3/8NPT)
	140-2363	2	Outdoor (8" Inlet Tube)				Sender & Bushing
	140-2344	2	Heavy Duty (Dual 6" Inlet Tubes)	11	193-0375	1	Sender, Temperature (E2)
5			Element - Air Cleaner D JA, D JB		505-0021	1	Bushing, Reducer (3/4NPT x 1/2NPT)
		2	Indoor & Outdoor [AF928M]	12	193-0244	1	Switches, Sender & Nipple
		2	Heavy Duty Primary [AF1605M]		309-0169	1	Sender, Pressure - Oil (E1)
		2	Heavy Duty Safety [AF1604]		309-0272	1	Switch, Pressure - Oil (Shutdown) (S1)
6			Air Cleaner (Include Element) D KA		505-0104	1	Switch, Pressure - Oil (PreAlarm) (S5)
		2	Indoor (Disposable) [AH1106]		505-0763	1	Nipple, Pipe (1/8NPT x 1-1/2"LG)
	140-2349	2	Heavy Duty (10" Inlet Tube)		505-0028	1	Cross, Pipe (1/8NPT)
7			Element - Air Cleaner D KA			1	Plug, Pipe - Square Head (1/8NPT)
		2	Heavy Duty Primary [AM# CD1830610826]				
		2	Heavy Duty Safety [AM# CD1830610827]				

NOTE: [] Numbers in Brackets are Fleetwood Inc. Identification, except for the numbers prefixed with "AM#" which are Air Maze Corporation Identifiers.

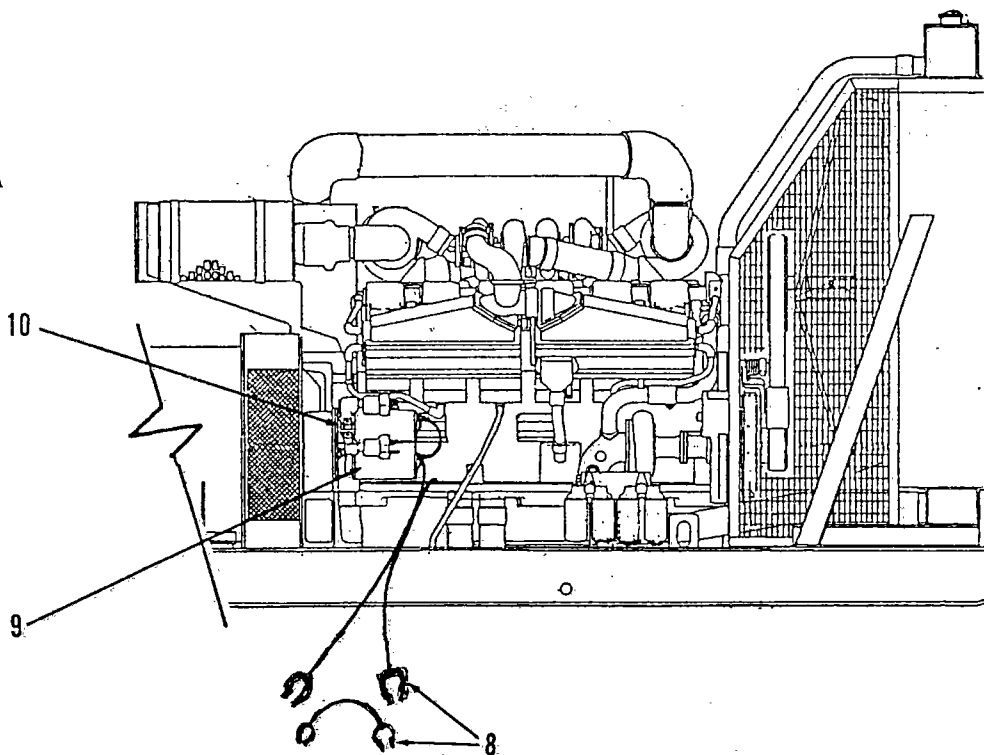
External Engine Components Left Side

D_JA

D_JB



D_KA



External Engine Components Left Side

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	Note 1	REF	Cooling System - Radiator	4			Belt, Drive - Fan
			Spec A			1	D JA, D JB (CEC#3003343)
	179-1257	1	D JA (BEARWARD # 53906-4PA)			1	D KA (CEC#3003341)
	179-1256	1	D JB (BEARWARD # 53906-4P)	5			Alternator Charging System
	179-1259	1	D KA (BEARWARD # 53071-4P)		191-1846-01	1	Alternator (35 Amp, 24 VDC)
			SPEC B		130-3317-01	1	Pulley, Drive
	179-1306	1	D-JA (BEARWARD # 53906-3PA)		511-0163	2	Belt, Drive - Alternator
	179-1307	1	D-JB (BEARWARD # 54906-3P)	6	Note 2		Filter, Water - W/Corosion
	179-1308	1	D KA (BEARWARD # 54906-5PA)				Inhibiting Chemical DCA4
2			Cap, Radiator			4	Service for 90 & up Gal
	130-0523	1	7 PSI (For 2" Fill Tube)				Cooling System [WF2072]
	130-2981	1	7 PSI (For 3" Fill Tube)			4	Pre-Charging for 90 & up Gal
	130-3395	1	10 PSI (For 2" Fill Tube)				Cooling System [WF2075]
3			Radiator (Excludes Cap)	7	122-0526	2	Filter, Oil - Bypass
			SPEC A	8			Cables & Leads
	130-3287	1	D-JA		416-0473	2	Cable, Battery - Jumper
	130-3286	1	D JB		416-0444	4	Cable, Battery (44" Lg)
	130-3288	1	D KA		416-0680	3	Lead, Electrical
			SPEC B	9	191-1588	2	Starter, 24 VDC
	130-3402	1	D JA	10	307-2621-02	2	Switch, Magnetic
	130-3403		D JB				
	130-3404	1	D KA				

NOTES:

1. Cooling Systems Supplied by Bearward.

BEARWARD ENGINEERING LTD
Main Road, Far Cotton
Northampton, England NN4 9HU

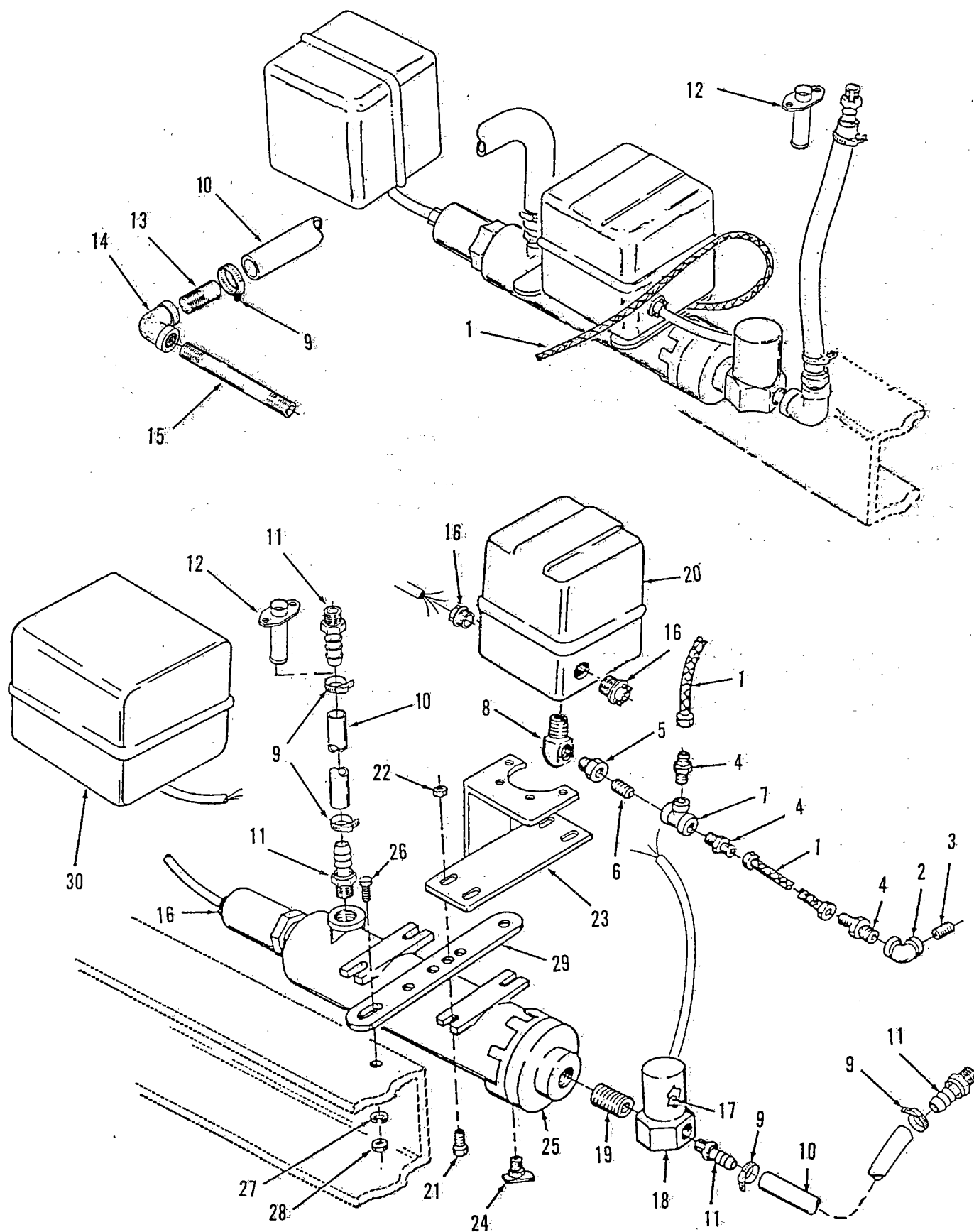
USA Office: BEARWARD RADIATOR
Route 22 Box 187
Fleetwood, PA 19522
215-944-6017

2. Replacement cartridges recommend and should be used in lieu of the Original Engine Factory Installed Item which contains a Pre-Charge amount of DCA or DCA4 Chemical. Replacement with Pre-charge Cartridge may overload the Cooling System and cause problems or failure of the Set.

3. (CEC#) Numbers in Parens are Cummins Engine Company Identification.

4. [] Numbers in Brackets are Fleetwood Inc. Identification.

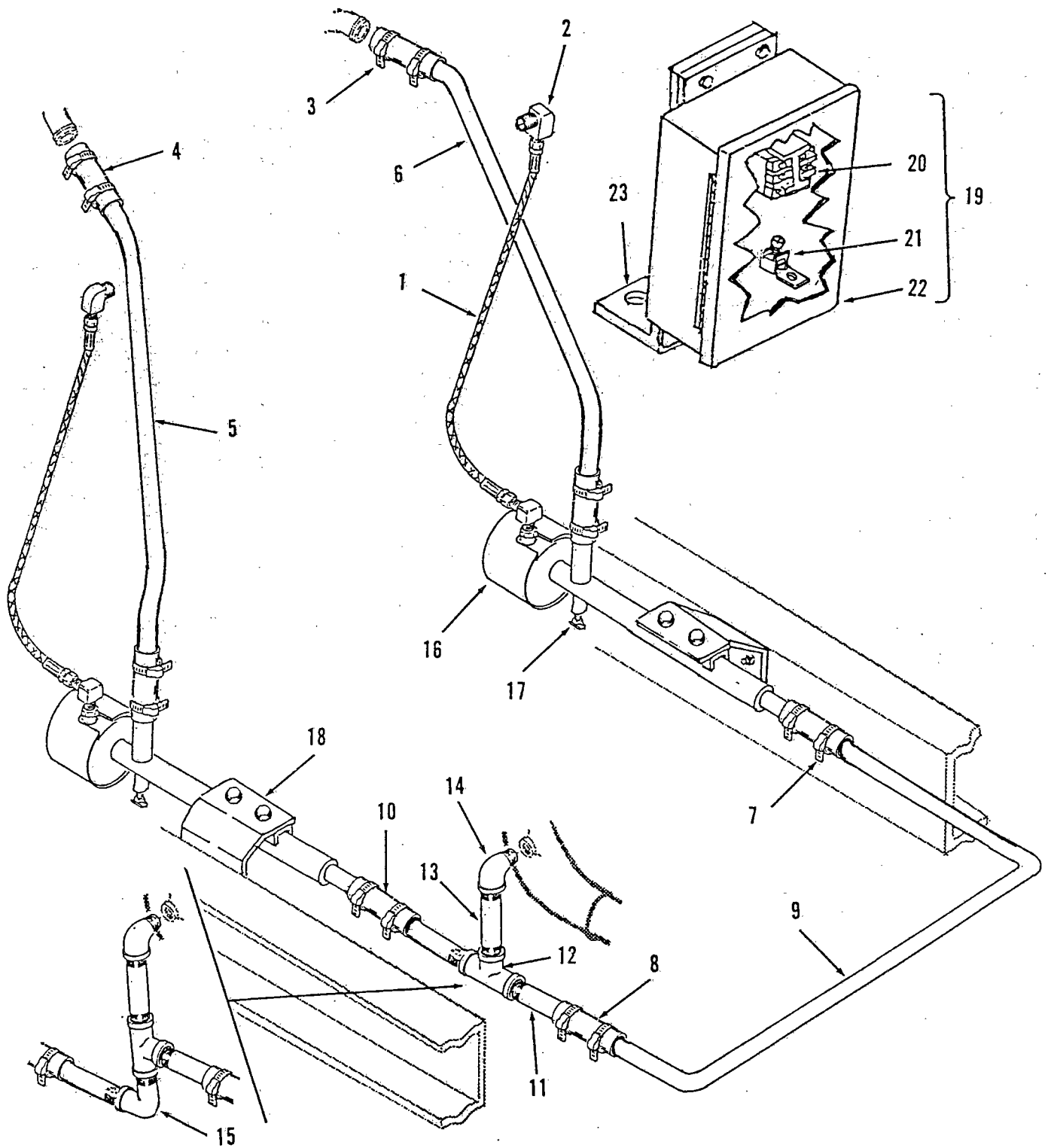
Dual Engine Coolant Heaters (Kim Type)



Dual Engine Coolant Heaters (Kim Type)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0199	2	Line, Fuel - Flexible	19	505-0004	2	Nipple, Pipe - Close (3/4 NPT x 1-1/2")
2	505-0037	1	Elbow - 90 Degree (1/8 NPT)	20	309-0271	2	Switch, Pressure - Oil
3	505-0104	1	Nipple, Pipe - Close (1/8 NPT x 1-1/2")		812-0079	8	Attaching Parts for Switch Screw, Machine - Round Head (#8-32 x 1/2")
4	502-0193	4	Adapter, Hex - Pipe to Line		854-0007	8	Washer, Lock - ET (#8)
5	505-0007	2	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)	21	800-0008	4	Screw, Cap - Hex Head (1/4-20 x 1-1/4")
6	505-0098	1	Nipple, Pipe - Close (1/8 NPT x 3/4")	22	870-0212	4	Nut, Self-locking - Hex (1/4-20)
7	505-0059	1	Tee, Pipe (1/8 NPT)	23	333-0224	2	Bracket, Support - Pressure Switch
8	502-0054	2	Elbow, Pipe - Street, 90 Degree (1/8 NPT)	24	504-0003	2	Cock, Drain
9	503-0398	8	Clamp, Hose	25			Heater, Electrical - Coolant
10	503-0249	AR	Hose, Rubber - Bulk (1"ID x 1-3/8"OD) [Sold in Multi Foot lengths, order as required]		333-0143	2	4000 Watt, 208 VAC - 1 Phase
					333-0164	2	4000 Watt, 208 VAC - 3 Phase
11	505-0759	7	Adapter, Hose to Pipe		333-0138	2	4000 Watt, 240 VAC - 1 Phase
12	130-3200	2	Adapter, Hose with Flange (Used on some applications)		333-0190	2	4000 Watt, 240 VAC - 3 Phase
13	505-0324	1	Nipple, Pipe - Half (3/4 NPT x 2")		333-0150	2	4000 Watt, 277 VAC - 1 Phase
14	505-0132	1	Elbow, Pipe - Street, 90 Degree (3/4 NPT)		333-0183	2	4000 Watt, 380 VAC - 1 Phase
15	505-0438	1	Nipple, Pipe (3/4 NPT x 8")		333-0174	2	4000 Watt, 380 VAC - 3 Phase
16	331-0027	12	Clamp, Cable		333-0161	2	4000 Watt, 480 VAC - 1 Phase
17			Terminals		333-0144	2	4000 Watt, 480 VAC - 3 Phase
	323-0957	4	Nut, Wire	26	821-0030	8	Screw, Self-locking - Hex Head (5/16-18 x 1-1/4")
	332-0014	8	Lug, Terminal - Ring (#10)	27	850-0045	8	Washer, Lock - Spring (5/16")
	332-0149	8	Lug, Terminal - Ring (#8)	28	862-0015	8	Nut, Hex (5/16-18)
18			Switch, Thermostatic	29	130-1191	4	Bracket, Mounting
	309-0490	2	100° - 120° Fahrenheit	30			Contactors
	309-0253	2	120° - 140° Fahrenheit		307-1460	2	230 VAC, 3 Pole
					307-1164	2	460 VAC, 3 Pole

Dual Engine Coolant Heaters (Watlow Type)



Dual Engine Coolant Heaters (Watlow Type)

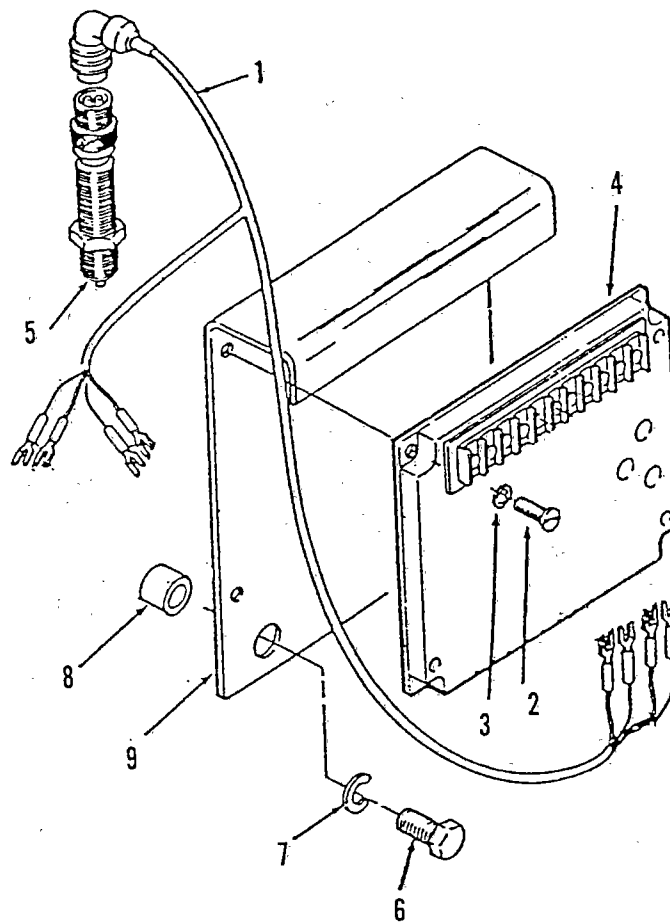
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		REF	Hose Assembly - Oil Pressure (Select as required)				Without Pressure Switch
	501-0537-03	2	32" Lg	333-0413-09	2		120V, 4000 Watt
	501-0537-07	2	50" Lg	333-0413-08	2		208V, 4000 Watt
	501-0537-26	2	60" Lg	333-0413-07	2		240V, 4000 Watt
2	502-1043-01	4	Elbow, Pipe - Male, 90 DEG	333-0413-10	2		480V, 4000 Watt
3	503-1603	8	Clamp, Hose				Attaching Parts for Heater
4	503-1602	4	Hose, Rubber	800-0222	4		Screw, Cap - Hex Head (1/4-20 x 3/4")
5	130-3339	1	Tube, Water	850-0101	4		Washer, Lock - Spring (1/4")
6	130-3340	1	Tube, Water				Isolator, Vibration
7	503-1603	6	Clamp, Hose	402-0608	4		Isolator, Vibration
8		2	Hose, Rubber (CEC# 200517)	402-0609	4		Cock, Drain (1/4 NPT)
9		1	Tube, Water (CEC# 3056251)	17 504-0003	2		Bracket, Mounting - Heater
10		1	Hose, Rubber (CEC# 3009805)	18 130-3189	2		Attaching Parts for Bracket
11		2	Nipple, Pipe - Half (CEC# 153409)				Screw, Cap - Hex Head (3/8-16 x 1-1/4")
12		1	Tee, Pipe (CEC# 3056256)	800-0210	8		Washer, Lock - Spring (3/8")
13		1	Nipple, Pipe (CEC# 5912C)	850-0103	8		Nut, Hex - Brass (3/8-16)
14		1	Elbow, Pipe - Street - 90° (CEC# 5906C)	871-0028	8		Switch, Control - Heater (Includes Contactor, Ground Lug and Box)
15		1	Elbow, Pipe - Street - 90° (CEC# 3056257) (Not used all Installations)	19	2		Contactor (50 AMP, 3 Pole, SPST, 120 VAC Coil) [Wat# 198-0-20-3]
16		REF	Heater, Electrical - Coolant (Includes Thermostat, Drain Cock, Mounting Nuts and may or may not include pressure switch)	20	1		Lug, Ground [Wat# 191-16-6-1]
			With Pressure Switch	21	1		Box, Electrical
	333-0389-06	2	120V, 4000 Watt	22	1		[Wat# 303-62-29-29]
		2	208V, 4000 Watt	23	2		Bracket, Mounting - Box
	333-0389-02	2	240V, 4000 Watt				Attaching Parts for Brackets
	333-0389-04	2	480V, 4000 Watt	800-0222	8		Screw, Cap - Hex Head (1/4-20 x 3/4")
				850-0101	8		Washer, Lock - Spring (1/4")
				862-0031	8		Nut, Hex (1/4-20)

NOTES:

- (CEC#) Numbers in Parens are Cummins Engine Company Identification.
- [WAT#] Numbers in Brackets are Watlow Industries Inc. Identification; Manufacturers of Heaters and Controls.

USA OFFICE
Watlow Industries Inc.
Div. of Watlow Electric Co.
Hannibal, Mo.

Electric Governor



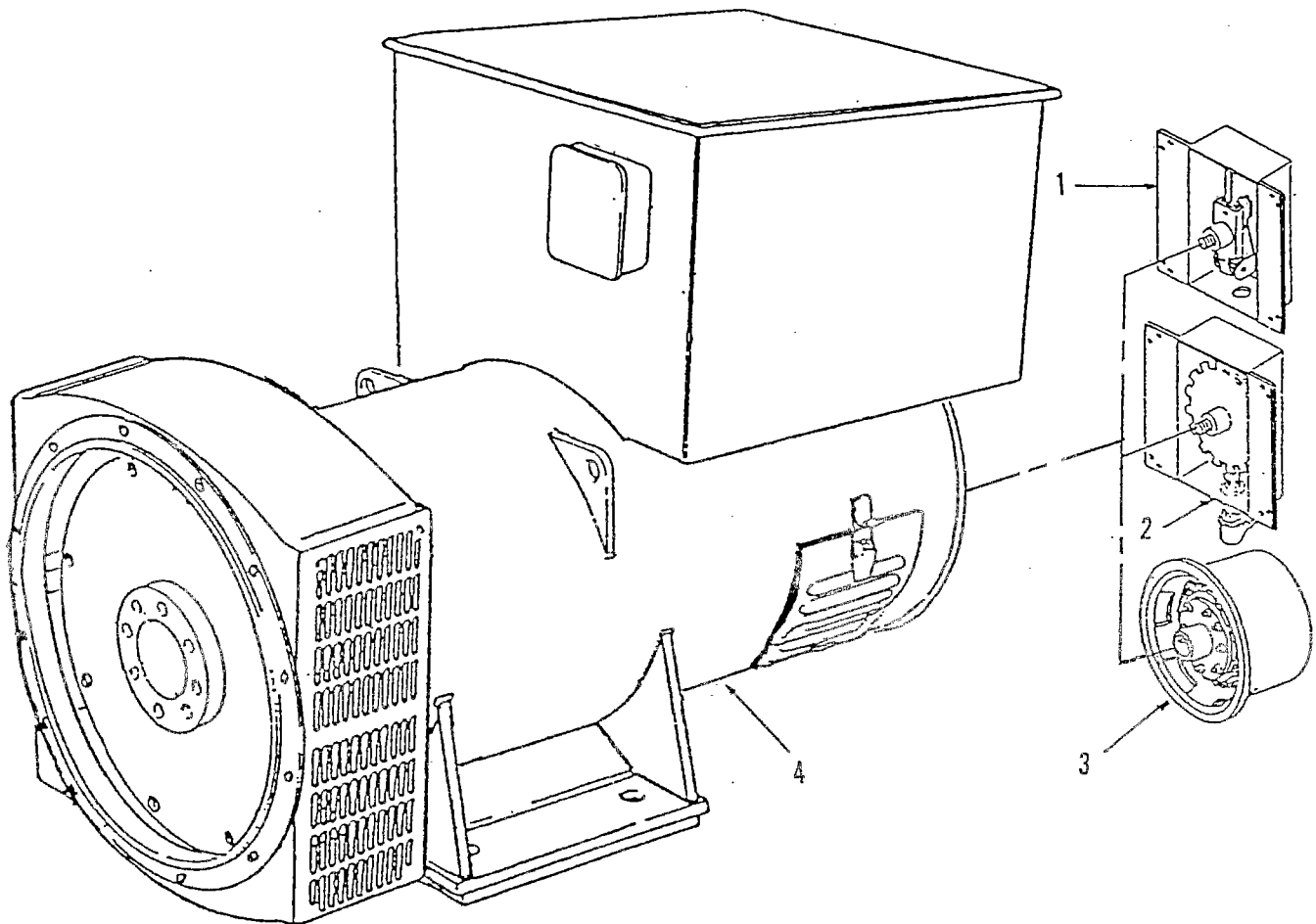
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-1777	1	Harness, Wiring	5	151-0411	1	Pickup, Magnetic
2	813-0103	4	Screw, Machine - Round Head (#10-32 x 3/4")	6	800-0151	2	Screw, Cap - Hex Head (3/4-10 x 1")
3	870-0131	4	Nut, Self-locking, Hex (#10-32)	7	850-0079	2	Washer, Lock - Spring (3/4")
4	151-0682	1	Controller, Governor	8	370-4040	2	Spacer, Sleeve
				9	150-2007	1	Bracket, Mounting

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Generator
Spec A

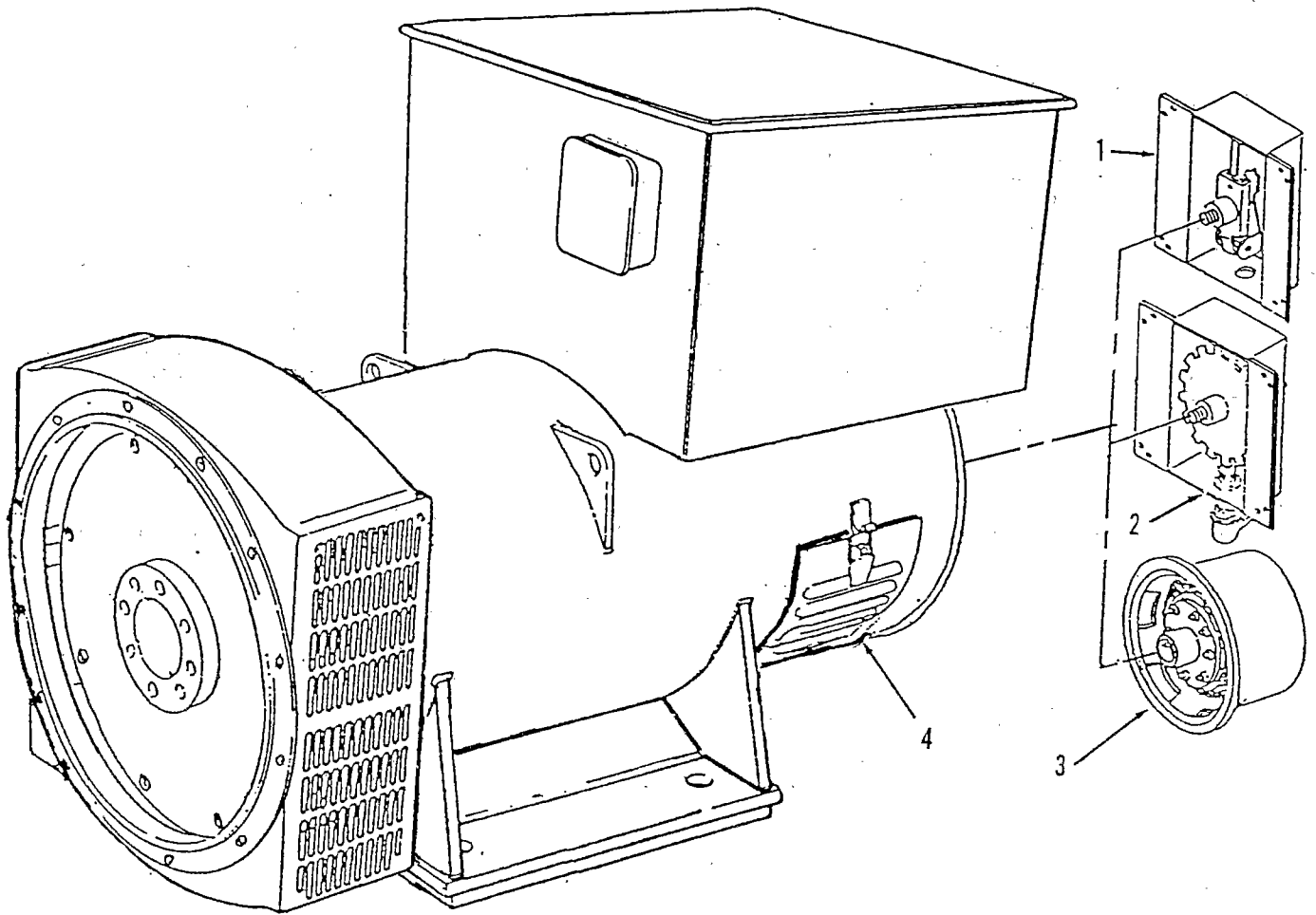


Generator Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		1	Module, Overspeed Switch (See Separate Page for Parts)	4	Note 1		Generator - Frame 6 (See Separate pages for Parts)
	821-2045	4	Attaching Parts Screw, Self-locking - Hex Hd (M8 x 1.25 x 16mm)				Attaching Parts Generator to Chassis
2		1	Module, Overspeed Sensor (See Separate Page for Parts)	800-0578	4		Screw, Cap - Hex Head (1 1/4-7 x 3-1/2")
	821-2045	4	Attaching Parts Screw, Self-locking - Hex Hd (M8 x 1.25 x 16mm)	850-0092	4		Washer, Lock - Spring (1-1/4")
3		1	Module, Perm. Magnet Exciter (See Separate Page for Parts)	526-0093	4		Washer, Flat (1-1/4")
	249-0298	4	Attaching Parts Screw, Cap - Hex Head (M8 x 16mm)	862-0017	4		Nut, Hex (1 1/4-7)
	249-0218	4	Washer, Lock (M8)	800-0576	16		Adapter to Flywheel Housing Screw, Cap - Hex Head, Gr 8 (1/2-13 x 3/4")
	249-0315	4	Clamp, Retaining	850-0060	16		Washer, Lock - Spring (1/2")
				800-0530	6		Drive Disc to Flywheel Screw, Cap - Hex Head, Gr 8 (5/8-11 x 1-1/4")

Note 1: For Replacement Generator please supply the complete Gen Set nameplate and Generator nameplate data.

Generator
Begin Spec B

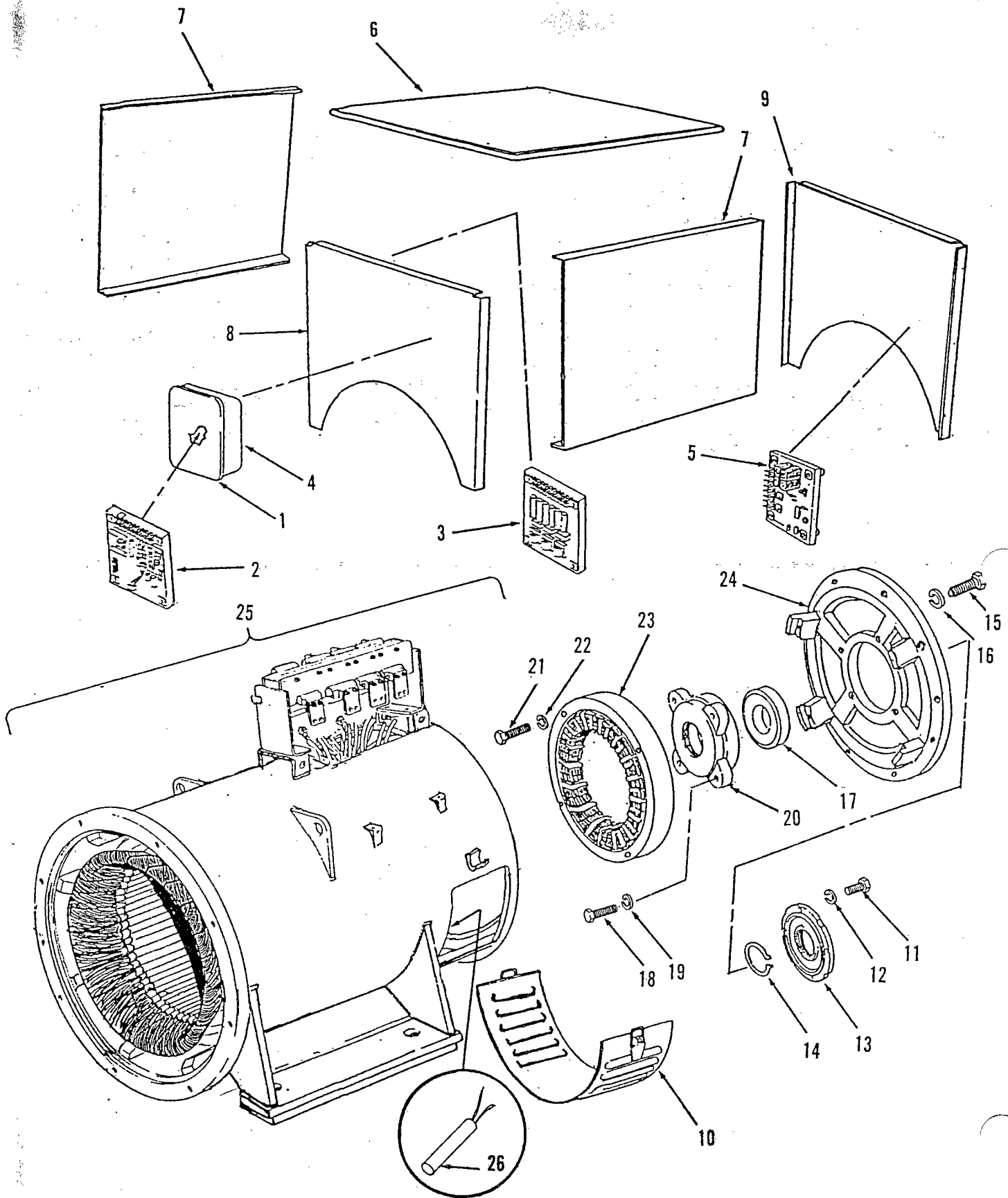


Generator Begin Spec B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		1	Module, Overspeed Switch (See Separate Page for Parts)	4	Note 1		Generator - Frame 6 (See Separate pages for Parts)
	821-2045	4	Attaching Parts Screw, Self-locking - Hex Hd (M8 x 1.25 x 16mm)				Attaching Parts Generator to Chassis
2		1	Module, Overspeed Sensor (See Separate Page for Parts)	800-0273	4		Screw, Cap - Hex Head (1 1/4-7 x 4")
	821-2045	4	Attaching Parts Screw, Self-locking - Hex Hd (M8 x 1.25 x 16mm)	850-0092	4		Washer, Lock - Spring (1-1/4")
3		1	Module, Perm. Magnet Exciter (See Separate Page for Parts)	526-0093	4		Washer, Flat (1-1/4")
	249-0298	4	Attaching Parts Screw, Cap - Hex Head (M8 x 16mm)	862-0017	4		Nut, Hex (1 1/4-7)
	249-0218	4	Washer, Lock (M8)	800-0576	16		Adapter to Flywheel Housing Screw, Cap - Hex Head, Gr 8 (1/2-13 x 3/4")
	249-0315	4	Clamp, Retaining	850-0060	16		Washer, Lock - Spring (1/2")
				800-0530	6		Drive Disc to Flywheel Screw, Cap - Hex Head, Gr 8 (5/8-11 x 1-1/4")

Note 1: For Replacement Generator please supply the complete Gen Set nameplate and Generator nameplate data.

Generator
Stator Section
Frame 6

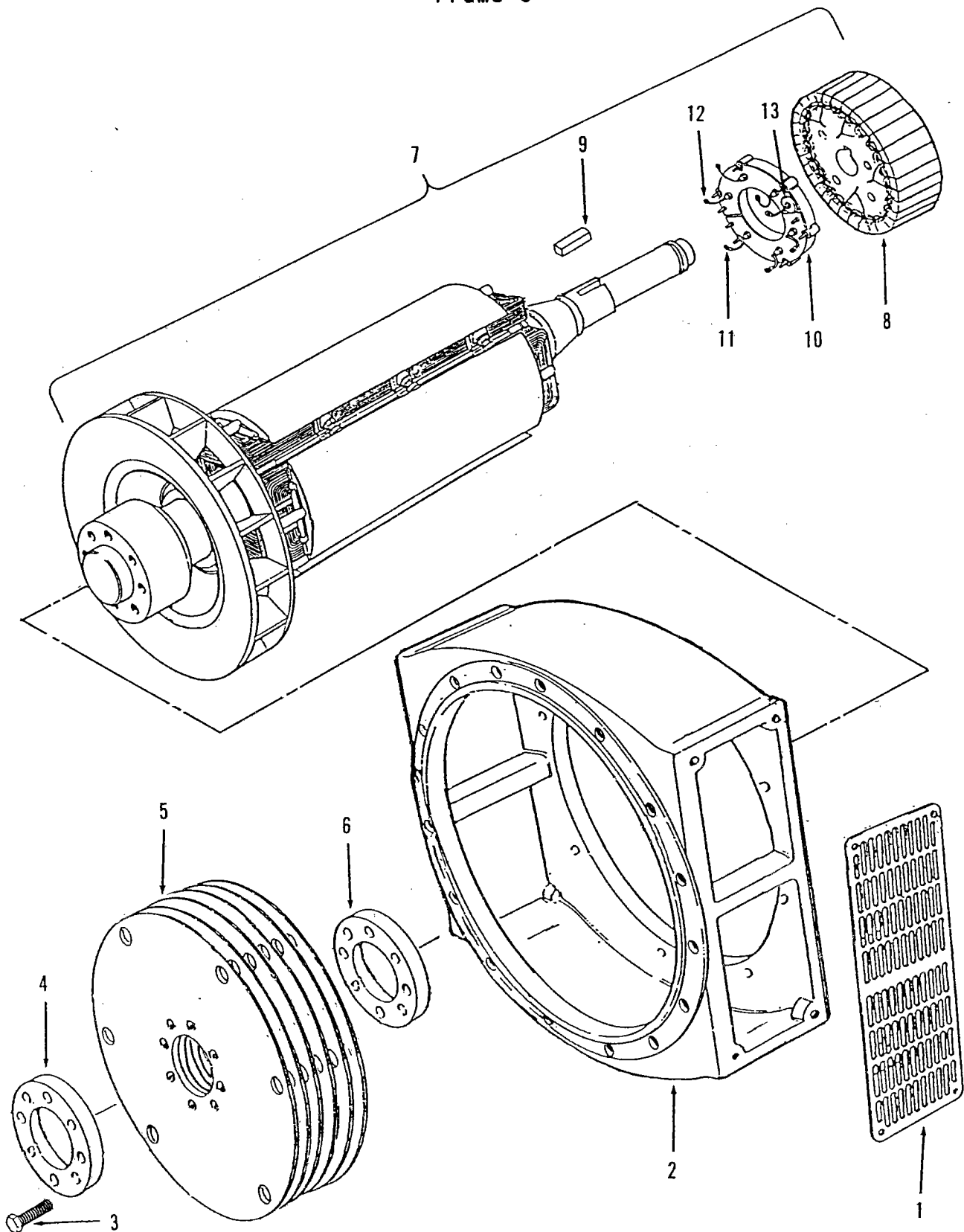


**Generator
Stator Section
Frame 6**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	249-0631	1	Lid	11	249-0243	4	Screw, Cap - Hex Head (M10 x 30mm)
			Attaching Parts	12	249-0202	4	Washer, Lock - Spring (M10)
	249-0304	4	Screw, Captive	13	249-0510	1	Cap, Bearing - Outer
2			Regulator, Voltage	14	249-0447	1	Circlip
	305-0770	1	Standard 1 Phase u/w PMG	15	249-0204	8	Screw, Cap - Hex Head (M12 x 40mm)
	305-0778	1	3 Phase (Used with PMG Exciter & 3 Phase Sensing Module)	16	249-0205	8	Washer, Lock - Spring (M12)
	305-0803	1	Manual	17	249-0448	1	Bearing, Ball
			Attaching Parts	18	249-0245	4	Screw, Cap - Hex Head (M10 x 50mm)
	249-0398	4	Pillar, Threaded	19	249-0202	4	Washer, Lock - Spring (M10)
3	249-0564	1	Module, 3 Phase Sensing	20	249-0509	1	Cap, Bearing - Inner
			Attaching Parts	21	249-0445	6	Screw, Cap - Hex Head (M6 x 85mm)
	249-0398	4	Pillar, Threaded	22	249-0212	6	Washer, Lock - Spring (M6)
4	249-0395	1	Box	23	249-0470	1	Stator, Exciter
5	300-3209-02	1	Module, Frequency Detection	24	249-0527	1	Bracket, End
			Attaching Parts	25	NFS	1	Stator, Generator (Includes Terminal Studs and Links)
	249-0295	4	Screw, Cap - Hex Head (M5 x 35mm)				Attaching Parts Stator to Adapter
	249-0288	4	Washer, Plastic (M5)		249-0204	8	Screw, Cap - Hex Head (M12 x 40mm)
	249-0287	4	Nut, Hex - Nylon (M5)		249-0205	8	Washer, Lock - Spring (M12)
6	NFS	1	Lid	26			Heater, Electrical - Replacement
7	NFS	2	Panel, Side		249-0621	1	70 Watt, 120 VAC
8	NFS	1	Panel, Front		249-0622	1	70 Watt, 240 VAC
9	NFS	1	Panel, Rear				
10	249-0513	2	Grille, Inlet - Air				

NFS - Not For Sale

Generator
Rotor Section
SAE 0/ SAE 18
Frame 6

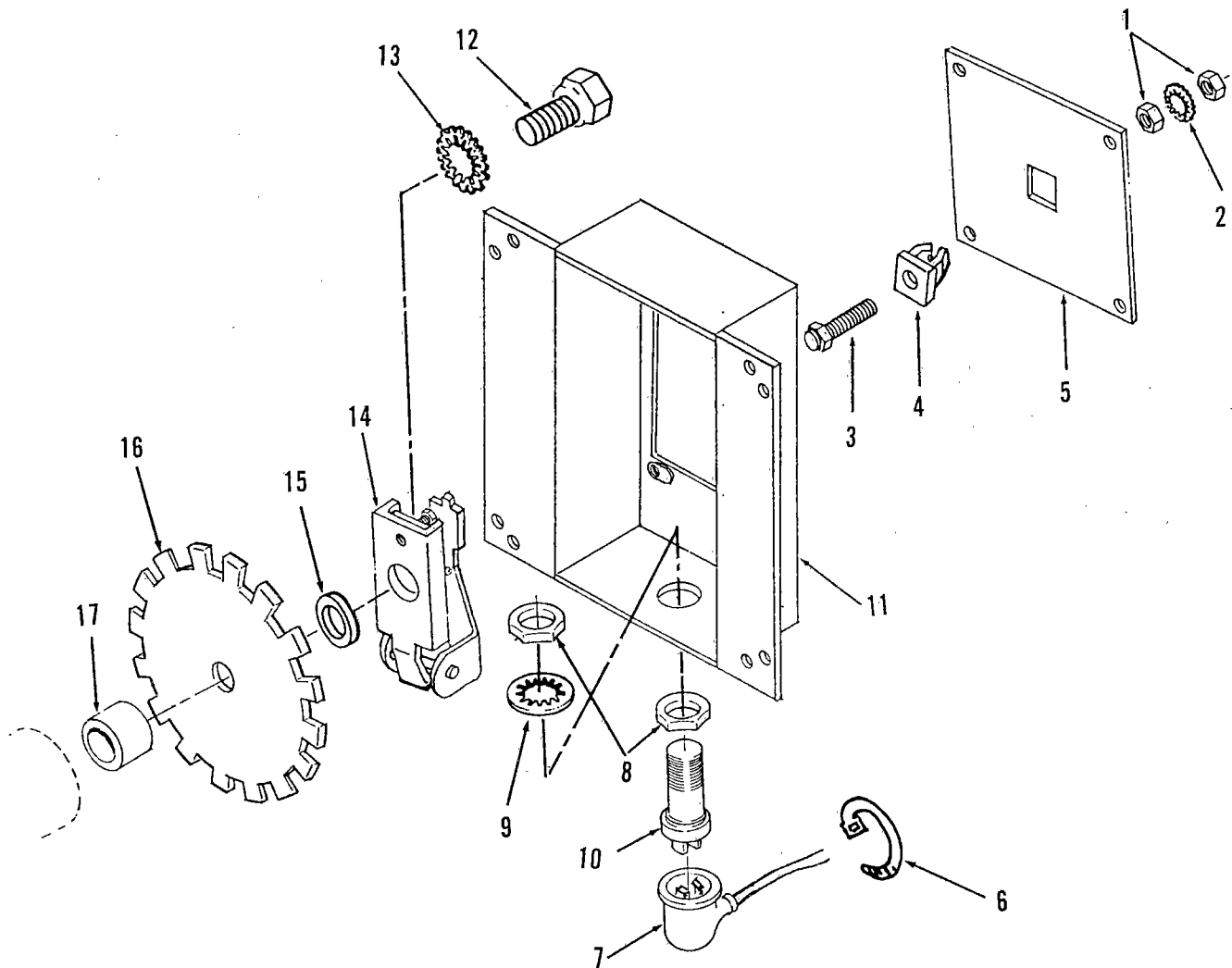


**Generator
Rotor Section
SAE 0/ SAE 18
Frame 6**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	249-0534	2	Screen, Air - Adapter	7	NFS	1	Rotor, Generator (Includes
			Attaching Parts				Exciter, Key, and Rectifier
	249-0294	12	Screw, Cap - Hex Head	8	249-0512	1	Assemblies)
			(M5 x 12mm)				Rotor, Exciter (Does Not
	249-0307	12	Washer, Lock - Spring (M5)	9	249-0271	1	Include Rectifier Assy)
	249-0365	12	Washer, Flat (M5)	10	249-0237	1	Key
2	249-0533	1	Adapter, Generator SAE 0				Rectifier Assy
3	249-0437	8	Screw, Cap - Hex Head	11	249-0239	3	(Includes Diodes)
			(M20 x 75mm)	12	249-0238	3	Diode, Forward Polarity
4	249-0230	1	Plate, Pressure	13	249-0240	1	Diode, Reverse Polarity
5	249-0276	6	Disc, Drive SAE 18				Varister
6	249-0277	1	Spacer				

NFS - Not For Sale

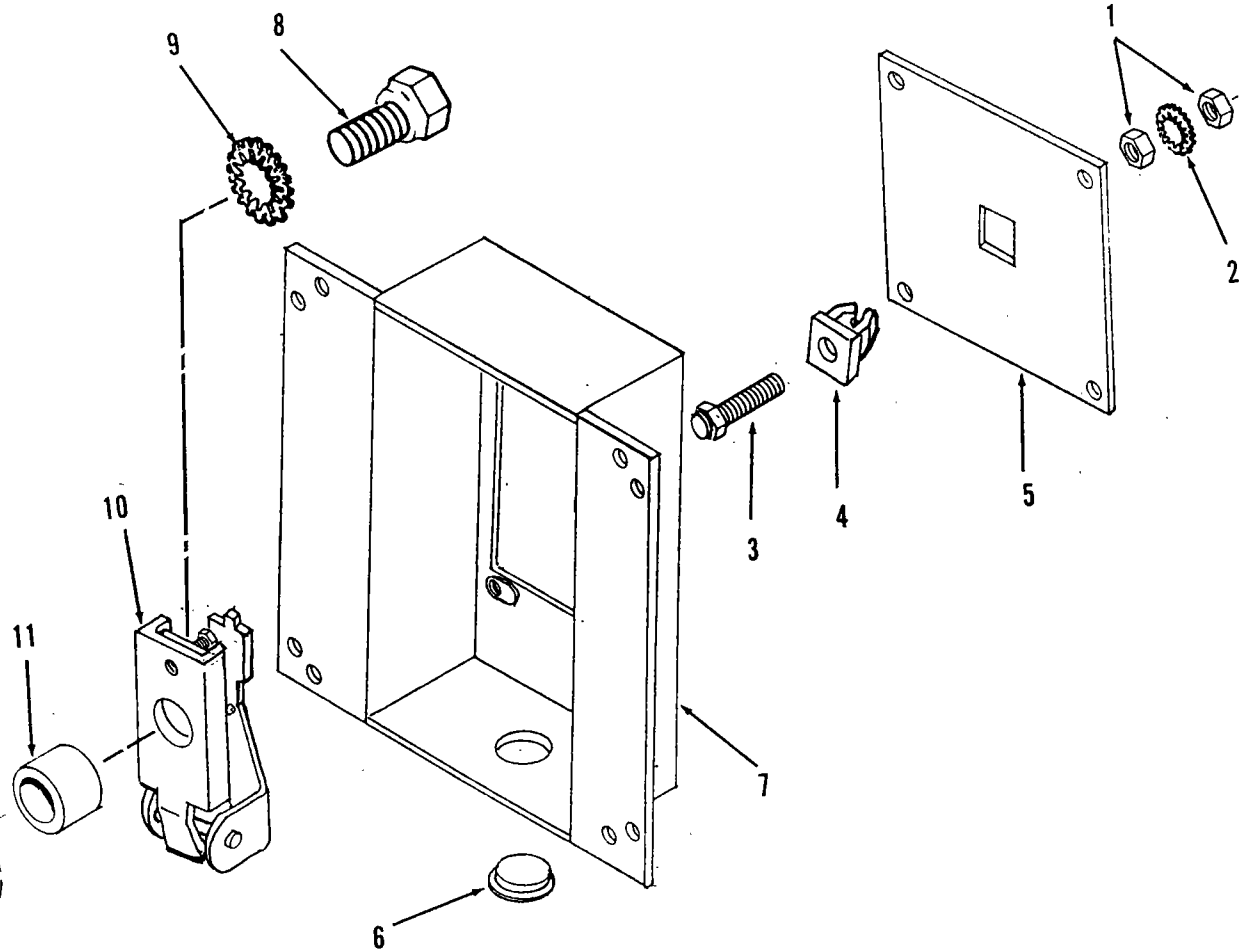
Generator Overspeed Sensor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0001	2	Nut, Hex (1/4-20)
2	853-0013	1	Washer, Lock - EIT (1/4")
3	150-0723	1	Point, Overspeed
4	870-0250	1	Nut, Insulated
5	150-2206	1	Plate, Mounting
	821-0005	4	Screw, Self-locking - Hex (#10-32 x 1/2")
6	332-1445	5	Tie, Cable
7	338-2189-02	1	Harness, Wiring
8	868-0011	2	Nut, Jam - Hex (3/4-16)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	854-0031	1	Washer, Lock - IT (3/4")
10	150-1406	1	Sensor, Speed
11	150-2207	1	Cover, Overspeed Switch
12	718-1058	1	Screw, Cap - Hex Head (M10 x 1.5 x 45mm)
13	856-0010	1	Washer, Lock - EIT (3/8")
14	150-0956	1	Switch, Overspeed
15	370-4031	1	Spacer, Sleeve
16	150-2204	1	Wheel - Speed Sensor
17	370-4032	1	Spacer, Sleeve

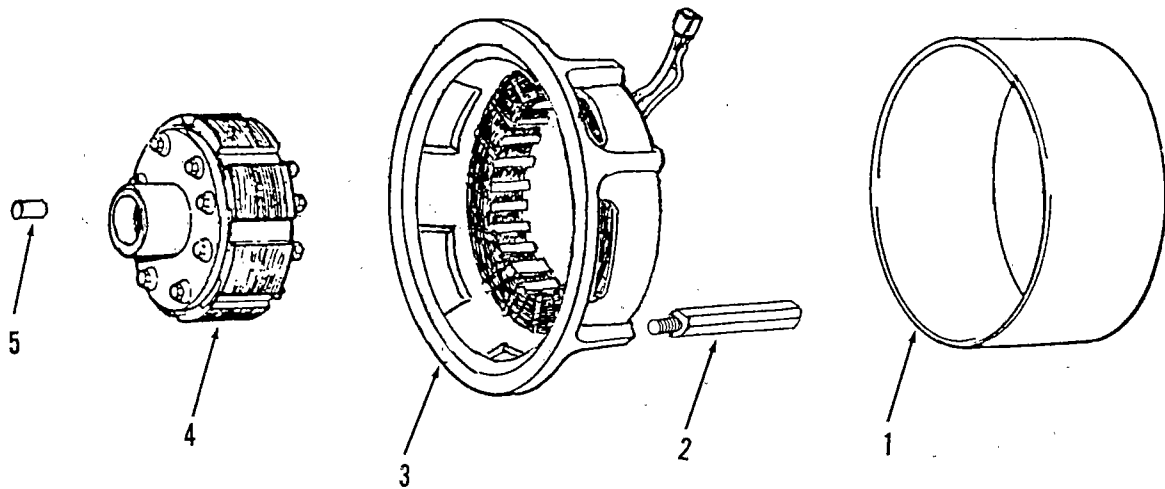
Generator Overspeed Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0001	2	Nut, Hex (1/4-20)
2	853-0013	1	Washer, Lock - EIT (1/4")
3	150-0723	1	Point, Overspeed
4	870-0250	1	Nut, Insulated
5	150-2206	1	Plate, Mounting
	821-0005	4	Screw, Self-locking - Hex (#10-32 x 1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	517-0136	1	Plug, Plastic
7	150-2207	1	Cover, Overspeed Switch
8	718-1058	1	Screw, Cap - Hex Head (M10 x 1.5 x 45mm)
9	856-0010	1	Washer, Lock - EIT (3/8")
10	150-0956	1	Switch, Overspeed
11	370-4032	1	Spacer, Sleeve

Generator Permanent Magnet Exciter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	249-0497	1	Cover
	249-0294	3	Attaching Parts for Cover Screw, Cap - Hex Head (M5 x 12mm)
	249-0307	3	Washer, Lock (M5)
2	249-0496	3	Pillar, Threaded
3	249-0426	1	Stator, Exciter with Frame

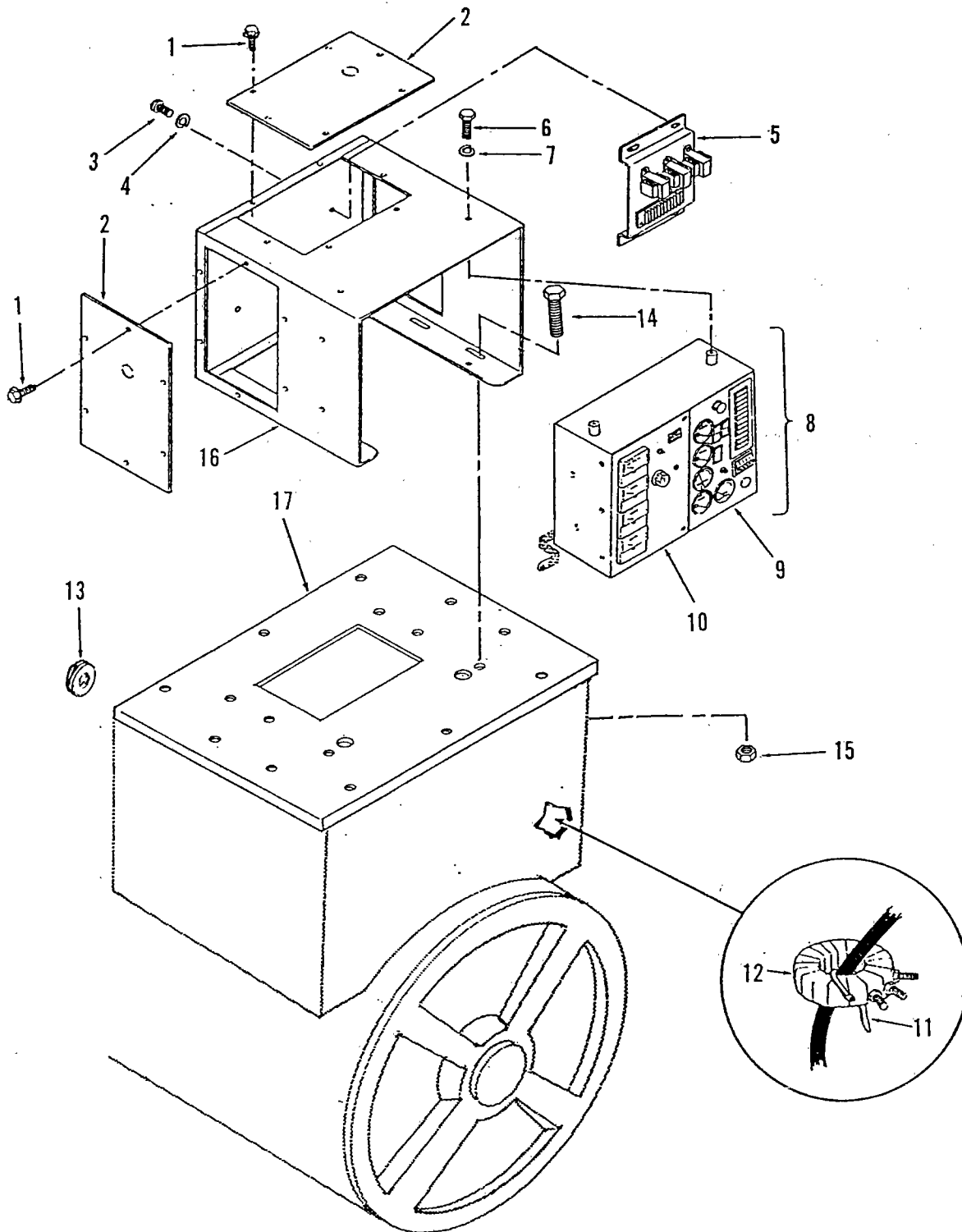
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4			Rotor, Exciter
	249-0427	1	Frame 2, 3, 4 Generators
	249-0644	1	Frame 5, 6, 7 Generators
			Attaching Parts for Rotor
			Bolt - Select as Required
	249-0399	1	Frame 2, 3, 4 Generators
	249-0395	1	Frame 5, 6, 7 Generators
	249-0202	1	Washer, Lock (M10)
5	249-0313	1	Pin, Dowel

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Generator Set Control (With Housing Enclosure)

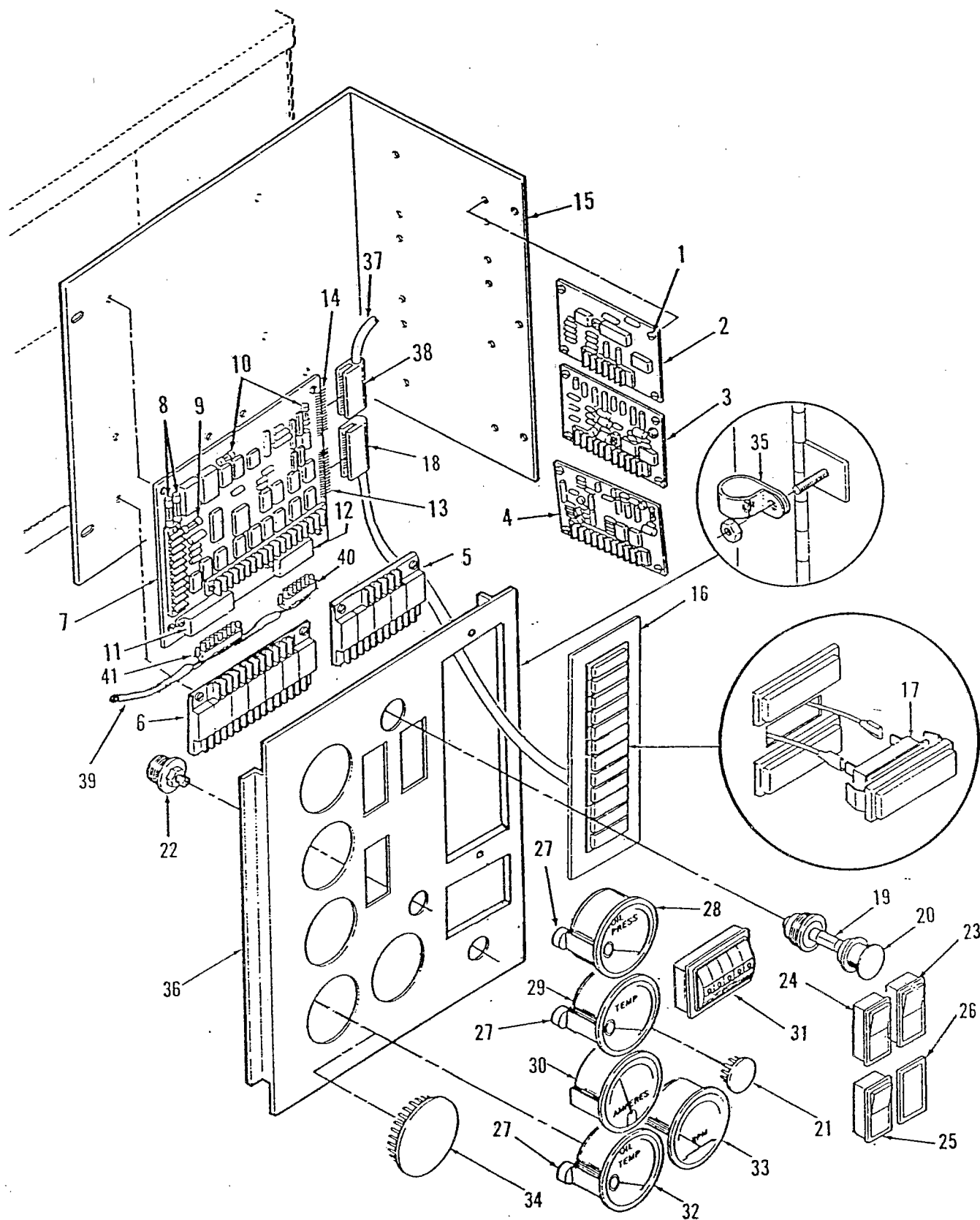


Generator Set Control (With Housing Enclosure)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0005	18	Screw, Self-locking - Hex (#10-32 x 1/2")	12			Transformer, Current - Reconnectible
2	NFS	3	Panel, Box - Control	302-1794-09	3		500/1000:5 Ratio; 750kW Voltage Code H.
3	812-0156	4	Screw, Machine - Round Head (1/4-20 x 1/2")	302-1794-10	3		600/1200:5 Ratio; 900kW Voltage Code H.
4	850-0040	4	Washer, lock - Spring (1/4")	302-1794-11	3		750/1500:5 Ratio; 800kW Voltage Code Y 480VAC Only; 900kW Voltage Code K 480VAC Only.
5	NFS	1	Transformer Assy, Potential (See Separate Page for Components)	302-1794-12	3		1000/2000:5 Ratio; 800kW Voltage Code Y 380VAC Only.
6	800-0051	4	Screw, Cap - Hex Head (5/16-18 x 1/2")	302-1794-13	3		1500/3000:5 Ratio; 620kW Voltage Code Y, 750kW Voltage Code K, 800kW Voltage Code K 208VAC Only.
7	850-0045	4	Washer, Lock - Spring (5/16")	302-1794-14	3		2000/4000:5 Ratio; 900kW Voltage Code K.
8	NFS	1	Control, Set (See item 9 & 10 for Components)	13	508-0051	1	Grommet
9	NFS	1	Control, Engine (See Separate Page for Components)	14	870-0212	6	Nut, Self-locking - Hex
10	NFS	1	Control, Generator (See Separate Page for Components)	15	821-0018	6	Screw, Self-locking - Hex Head (1/4-20 x 5/8")
11	332-0941	6	Tie, Cable	16	NFS	1	Housing, Control
				17	NFS		Adapter, Housing to Terminal Box

NFS - Not For Sale

Engine Control Components (Sets with Housing Enclosure)

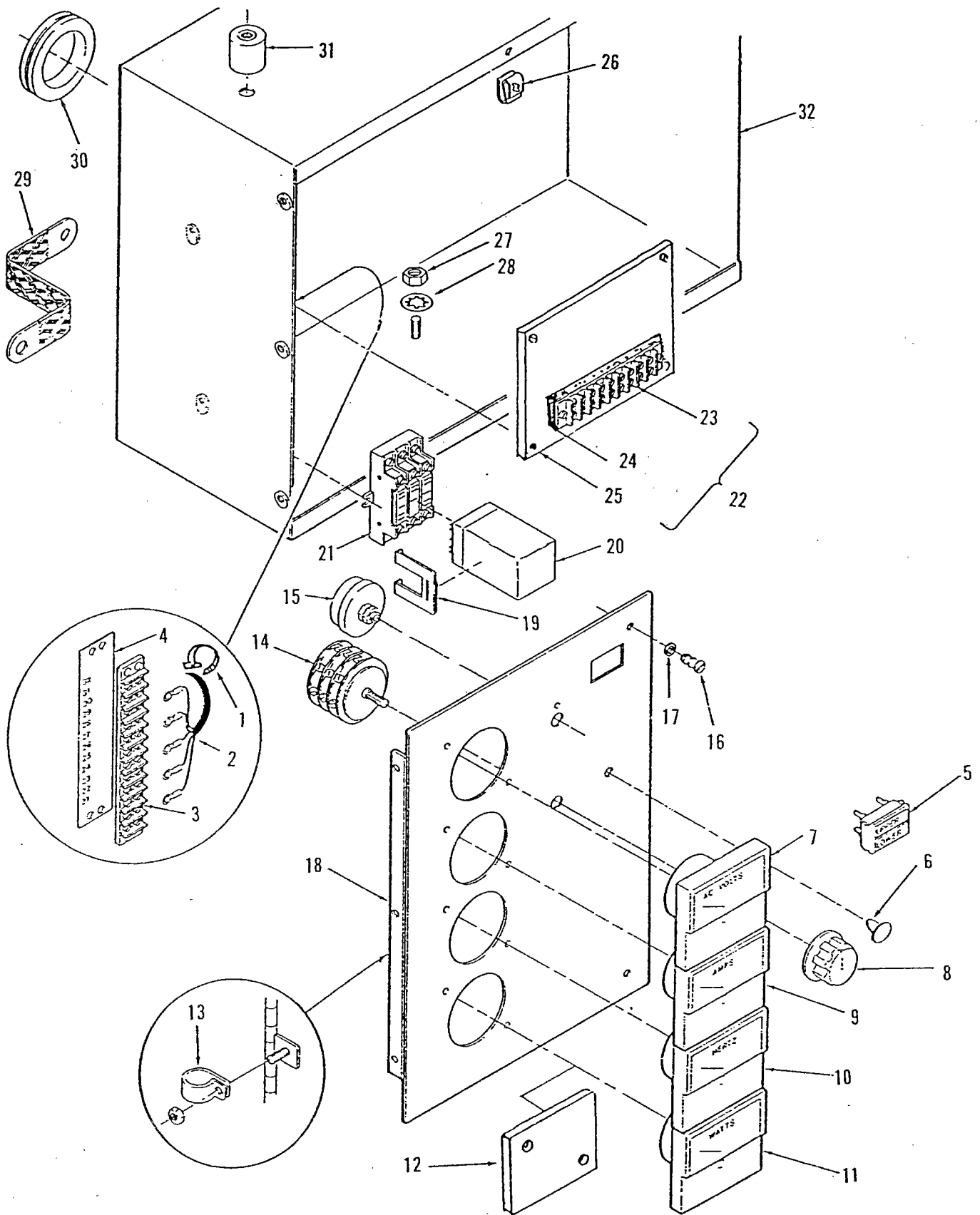


Engine Control Components (Sets with Housing Enclosure)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	24	Screw, Machine - Round Head With IT Lock Washer (#6-32 x 1/2")	17	322-0369-02	12	Lamp, Incandescent - 1/3 Watt 28 VDC
2	300-2899	1	Board, Time Delay, Start/Stop - 24 VDC (A15)	18	323-1310	1	Housing, 13 Pin (J3)
3			Board, Magnetic Sensor, Start Disconnect/Over Speed Sensor (A16)	19	322-0017	1	Contact, Pin
	300-2903	1	Standard	20	322-0361	1	Lamp, Incandescent - 28 VDC (DS11)
	300-2904	1	Precision	21	517-0131	1	Holder, Lamp
4	300-2906	1	Board, Over-Under Voltage Sensor - 24 VDC (A17)	22	303-0280	1	Plug, Button
5	300-2856	1	Board, Relay - 24 VDC (A13)	23	308-0785	1	Potentiometer (R11)
6	300-2863	1	Board, Relay - 24 VDC (A14)	24	308-0784	1	Switch, Push (S11)
7			Board, Engine Monitor (A11) (Includes Fuses and Connectors)	26	301-6257	1	Switch, Push (S12)
	300-2808	1	24 VDC, 2 Light	27	193-0250	3	Cover
	300-2812	1	24 VDC, 12 Light	28	193-0352	1	Resistor, Gauge (R12)
8	321-0270	2	Fuse, Cartridge - 20 Amp (F1, F2)	29	193-0351	1	Gauge, Pressure - Oil (M11)
9	321-0231	1	Fuse, Cartridge - 15 Amp (F3)				Gauge, Temperature - Water (M12)
10	321-0094	2	Fuse, Cartridge - 5 Amp (F4, F5)	30	302-1790	1	Ammeter (M13)
11	323-1305	1	Connector, 8 Pin (P1)	31	302-0885	1	Meter, Totalizing - Time (M14)
12	323-1303	1	Connector, 6 Pin (P2)		815-0385	2	Screw, Machine - Round Head (#6-31 x 1/2")
13	323-1309	1	Connector, 13 Pin (P3)		870-0183	2	Nut, Hex with ET Lockwasher (#6-32)
14	323-1307	1	Connector, 12 Pin (P4)	32	193-0330	1	Gauge, Temperature - Oil (M15)
15	NFS	1	Bracket, Mounting	33	302-1873-01	1	Tachometer (M16)
	821-0004	4	Screw, Self-locking - Hex Hd (#10-32 x 5/16")	34	517-0221	1	Plug, Button
16			Module, Indicator - Fault (Includes replaceable lamps, Harness with connector housing & contact pins)(A12)	35	332-0052	1	Clamp, Loop
	322-0358-02	1	24 VDC, 2 Light		870-0131	1	Nut, Hex with ET Lockwasher (#10-32 x 1/2")
	322-0360-02	1	24 VDC, 12 Light	36	NFS		Door, Control
	815-0385	2	Screw, Machine - Round Head (#6-32 x 1/2")	37	338-1817	1	Harness, Wiring - DC Meter (Includes Connector & Pins)
	870-0183	2	Nut, Self-locking - Hex (#6-32)	38	323-1308	1	Housing, 12 Pin (J4)
					323-1302	12	Contact, Pin
				39	338-2170	1	Harness, Wiring - Control to Engine (Includes Connectors and Pins)
				40	323-1304	1	Housing, 6 Pin
					323-1200	6	Contact, Pin
				41	323-1306	1	Housing, 8 Pin
					323-1200	8	Contact, Pin

NFS - Not For Sale

Generator Control Components (Sets with Housing Enclosure)

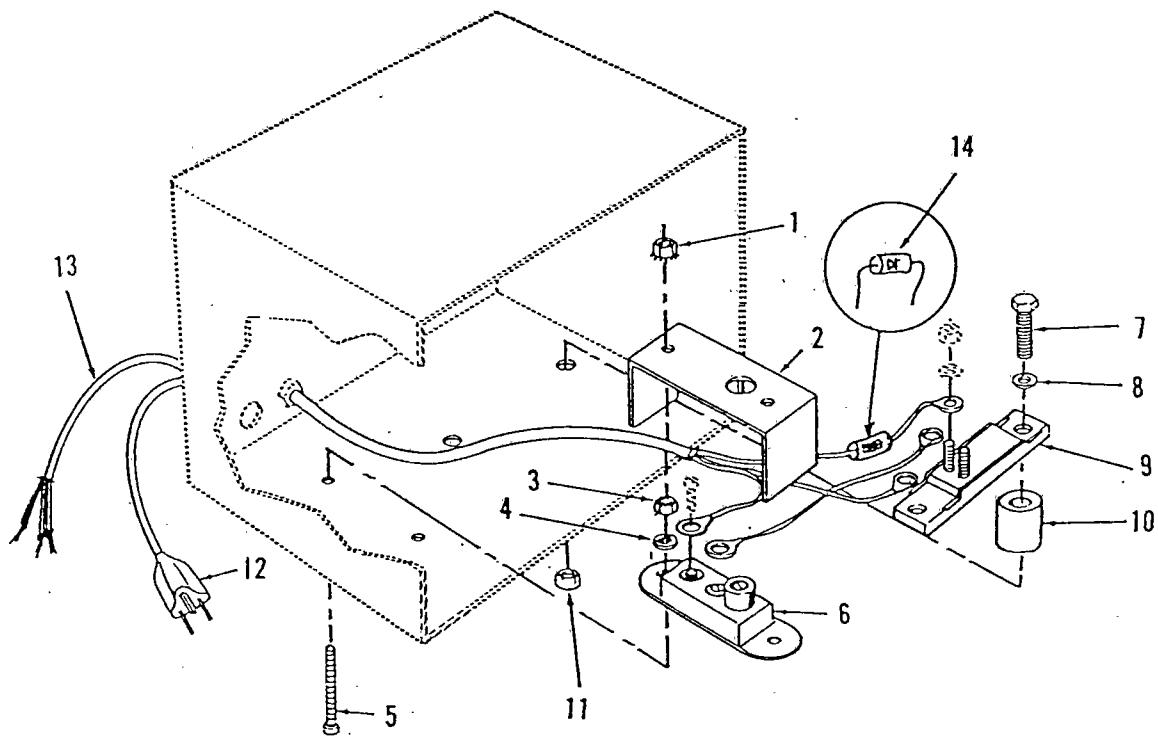


Generator Control Components (Sets with Housing Enclosure)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-1445	2	Tie, Cable	13	332-0052	1	Clamp, Loop
2			Harness, Wiring		870-0131	1	Nut, Self-locking - Hex with ET Lock Washer (#10-32)
	338-1818	1	Control with Meters (Includes Terminal Block)	14	308-0284	1	Switch, Rotary (S21)
	338-1853	1	Control without Meters	15	303-0261	1	Rheostat (R21)
	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")	16	406-0334	2	Clip, Fastener
3	332-0607	1	Block, Terminal (TB1)	17	406-0333	2	Stud, Fastener
4	332-2723	1	Strip, Marker	18	NFS	1	Door, Control
5	322-0363	1	Light, Indicator - Dual (DS21, DS22)		821-0004	3	Screw, Self-locking - Hex (#10-32 x 5/16")
6	517-0131	1	Plug, Button	19	307-1987	2	Clip, Relay
7			Voltmeter (M21)	20	307-1056	1	Relay, 24 VDC (K21)
	302-1148	1	Dual Scale 0-300/0-600V	21	323-0804	1	Socket, Relay
	302-1753	1	Single Scale 0-750V		815-0544	2	Screw, Machine - Round Head with IT Lock Washer (#6-32 x 1/2")
8	303-0032	1	Knob				Terminal Board Assembly
9			Ammeter (M22)	22	NFS	1	Screw, Machine - Round Head (#6-32 x 5/8")
			Single Scale Voltage Code H		812-0065	4	Block, Terminal
	302-1732	1	750kW, 0-1000 Amp				Screw, Machine - Round Head (#6-32 x 3/4")
	302-1733	1	900kW, 0-1200 Amp	23	332-0751	1	Strip, Marker
			Dual Scale Voltage Code Y		812-0066	2	Plate
	302-1799	1	620kW, 0-1500/0-3000 Amp, all voltages, 800kW, volt- ages 208 & 480 VAC Only.	24	332-0853	1	Receptacle, Fastener
				25	NFS	1	Nut, Hex (1/4-20)
	302-1800	1	800kW, 0-2000/0-4000 Amp, 380 VAC Only.	26	406-0332	2	Washer, Lock - ET (1/4")
			Dual Scale Voltage Code K	27	871-0015	1	Strap, Electrical (Ground)
	302-1799	1	750kW, 0-1500/0-3000 Amp, all voltages, 900kW volt- age 480 VAC Only.	28	853-0013	1	Screw, Cap - Hex Head (5/16-18 x 1/2")
				29	337-0049	1	Washer, Lock - EIT (5/16")
	302-1800	1	900kW, 0-2000/0-4000 Amp, 208 & 380 VAC Only.		800-0024	1	Grommet
10	302-1720	1	Meter, Frequency (M23)		856-0008	1	Mount, Vibration
11			Wattmeter (M24) (See Separate page for Components)	30	508-0051	1	Screw, Cap - Hex Head (5/16-18 x 1/2")
			Cover, Meter Hole	31	402-0527	4	Washer, Lock - Spring (5/16")
12	NFS	1	Screw, Machine - Round Head, Black (#6-32 x 1/2")		850-0045	4	Box, Control
	815-0385	2	Nut, Hex with ET Lockwasher (#6-32)				
	870-0183	2		32	NFS	1	

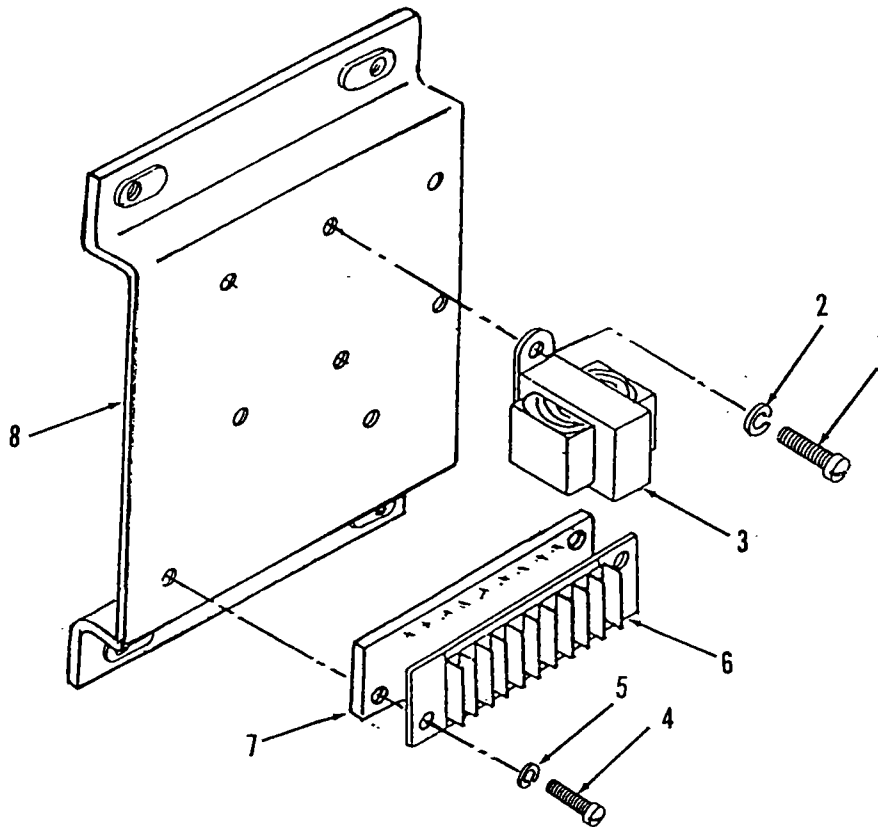
NFS - Not For Sale

Control Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0183	2	Nut, Self-locking - Hex (#6-32)	9	333-0151	1	Heater, Electrical 120VAC
2	301-1886	1	Cover		333-0378	1	240VAC
3	860-0006	1	Nut, Hex (#6-32)	10	130-1107	2	Spacer
4	854-0006	2	Washer, Lock - IT (#6)	11	870-0257-	2	Nut, Self-locking - Hex (5/16-18)
5	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4")	12	335-0161	1	Cable, Electrical (120VAC Application)
6	309-0128	1	Thermostat, Adjustable	13	338-2121	1	Harness Wiring with Diode, less plug (240VAC Application)
7	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 2-1/4")	14	357-0013	1	Diode
8	526-0113	2	Washer, Flat (5/16")	15	98-3232	1	Decal, Warning - Shock Hazard (Not Illustrated)

Potential Transformer

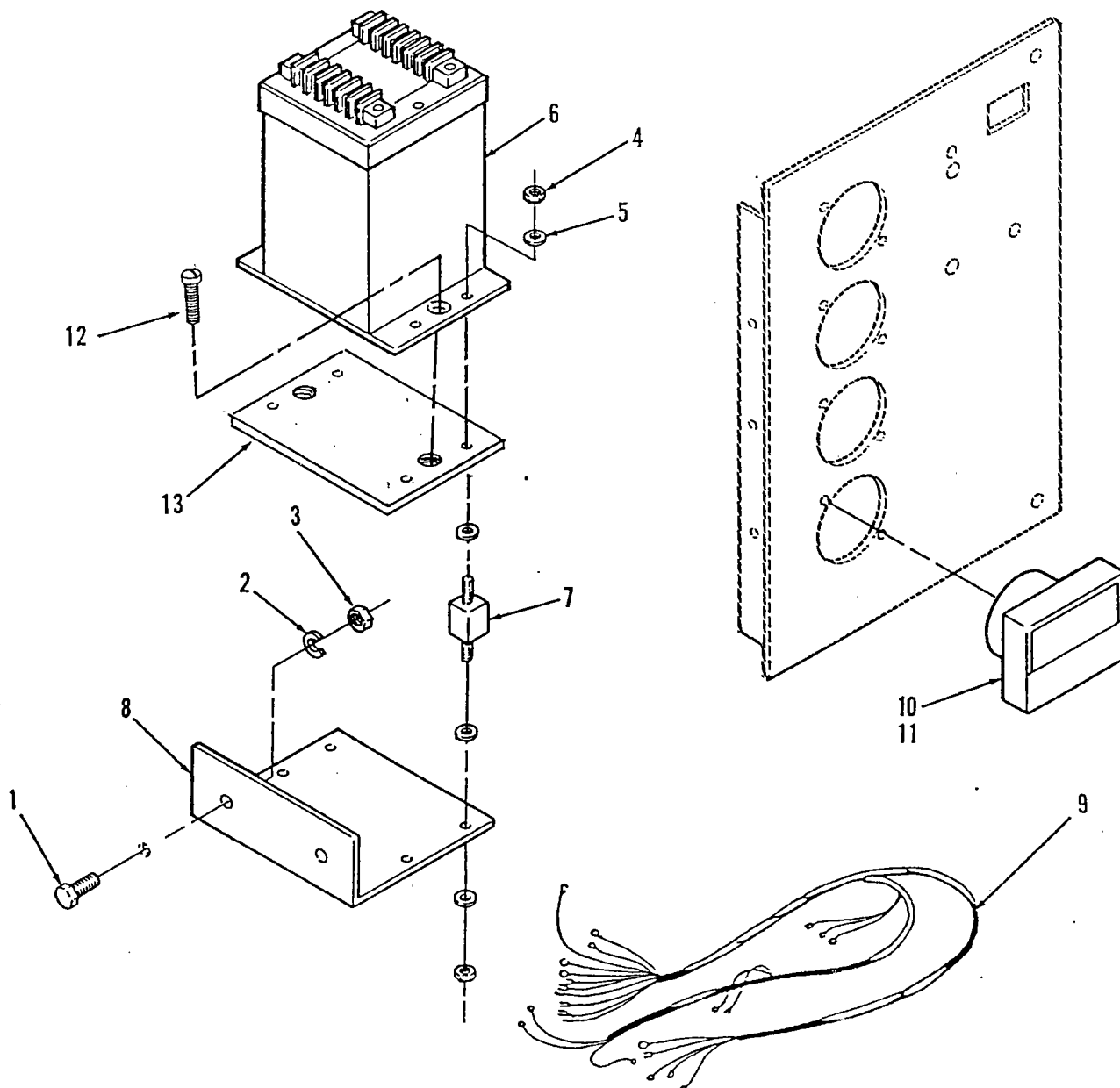


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0079	6	Screw, Machine - Round Head (#8-32 x 1/2")
2	850-0025	6	Washer, Lock - Spring (#8)
3	315-0642	3	Transformer, Potential
4	812-0077	2	Screw, Machine - Round Head (#8-32 x 3/8")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	850-0025	2	Washer, Lock - Spring (#8)
6	332-2562	1	Block, Terminal (10 Place)
7	332-2563	1	Strip, Marker
8	NFS	1	Bracket, Mounting

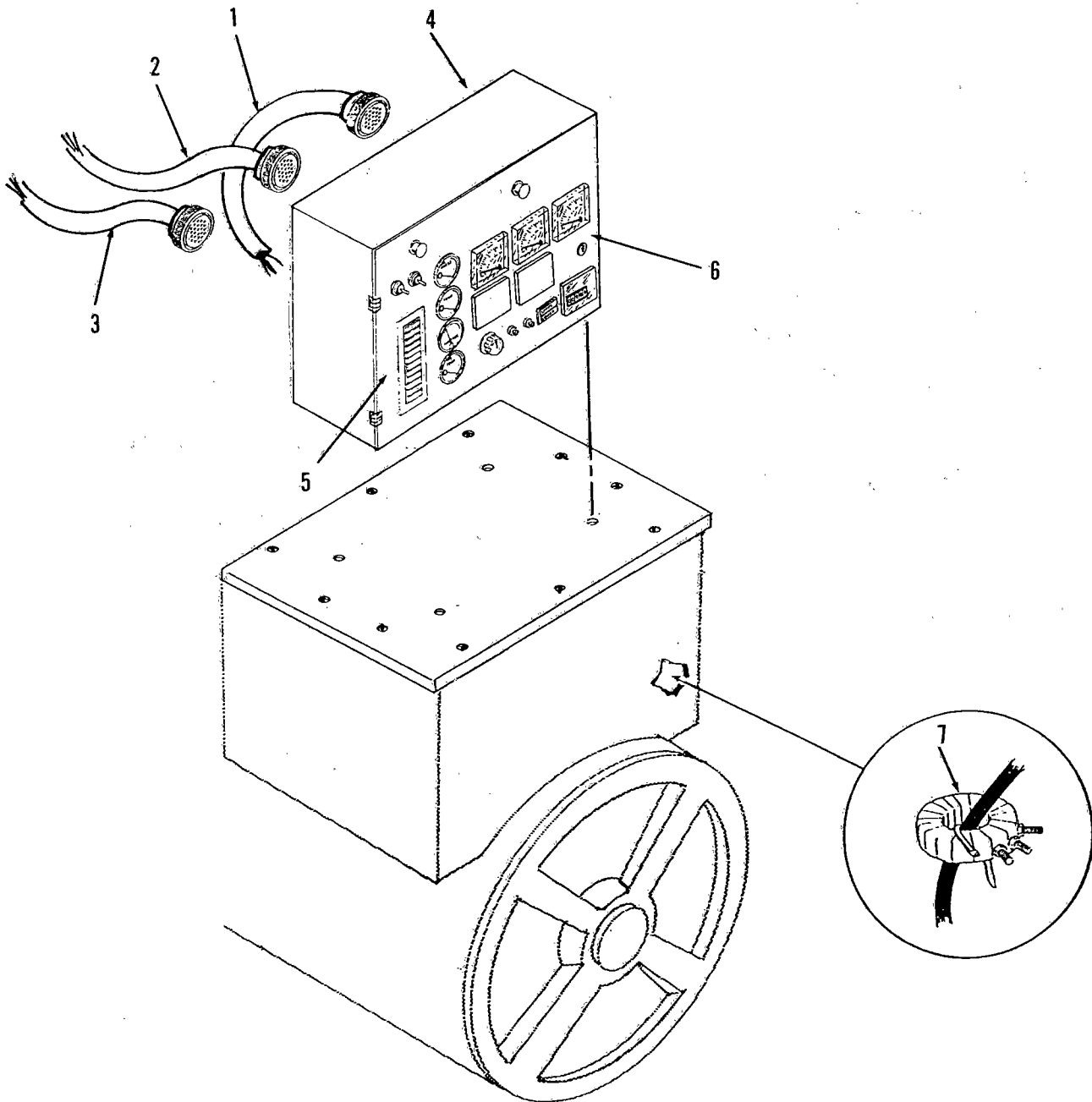
NFS - Not For Sale

Wattmeter (Sets with Housing Enclosure)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0017	2	Screw, Cap - Hex Head (5/16-18 x 1/2")	8	301-6987	1	Bracket, Mounting
2	850-0045	2	Washer, Lock (5/16)	9	338-1936	1	Harness, Wiring
3	862-0014	2	Nut, Hex (5/16-18)	10	302-1722	1	Wattmeter (Less Dial)
4	860-0008	8	Nut, Hex (#8-32)	11	302-1721-16	1	Dial, Wattmeter
5	856-0002	16	Washer, Lock - ET (#8)		302-1721-17	1	Scale 0-800 kW
6	302-1333-01	1	Transducer, Watt			1	Scale 0-1200 kW
7	402-0354	4	Mount, Shock	12	613-0102	2	Screw, Machine - Round Head (#10-32 x 3/8")
				13	319-0030	1	Plate, Support - Transducer

Generator Set Control
(Without Housing Enclosure)



**Generator Set Control
(Without Housing Enclosure)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-2200-01	1	Harness, Wiring - Control to Generator (Includes a connector Housing)	7			Transformer, Current (Select As Applicable)
	323-1135	1	Housing, Connector (J21)	302-1785-01	3		1200:5 Ratio
	323-1193	4	Contact, Pin	302-1785-02	3		1500:5 Ratio
	323-1194	10	Contact, Pin	302-1785-03	3		1600:5 Ratio
2	338-2198-01	1	Harness, Wiring - Control to Governor (Includes a connector housing)	302-1785-04	3		2000:5 Ratio
	323-1135	1	Housing, Connector (J12)	302-1785-05	3		2500:5 Ratio
	323-1193	4	Contact, Pin	302-1785-06	3		2000:5 Ratio (380V Only)
	323-1194	10	Contact, Pin	302-1785-07	3		3000:5 Ratio
3	338-2193-01	1	Harness, Wiring - Control to Engine Components (Includes a connector housing)	302-1785-08	3		4000:5 Ratio
	323-1206	1	Housing, Connector (J11)	302-1785-09	3		5000:5 Ratio
	323-1194	20	Contact, Pin	302-1786-01	3		500/1000:5 Ratio
4	NFS	1	Control, Set (See item 5 & 6 for Components)	302-1786-02	3		600/1200:5 Ratio
	402-0527	4	Mount, Vibration	302-1786-03	3		750/1500:5 Ratio
	800-0051	8	Screw, Cap - Hex Head (5/16-18 x 1/2")	302-1786-04	3		800/1600:5 Ratio
	850-0045	8	Washer, Lock - Spring (5/16")	302-1786-05	3		900/1800:5 Ratio
5	NFS	1	Control, Engine (See Separate Page for Components)	302-1786-06	3		1000/2000:5 Ratio
6	NFS	1	Control, Generator (See Separate Page for Components)	302-1786-07	3		1200/2400:5 Ratio
				302-1786-08	3		250/500:5 Ratio
				302-1786-09	3		300/600:5 Ratio
				302-1786-10	3		400/800:5 Ratio
				302-1786-11	3		375/750:5 Ratio
				302-1786-12	3		75/150:5 Ratio
				302-1786-13	3		100/200:5 Ratio
				302-1786-14	3		150/300:5 Ratio
				302-1786-15	3		200/400:5 Ratio
				302-1786-16	3		1500/3000:5 Ratio

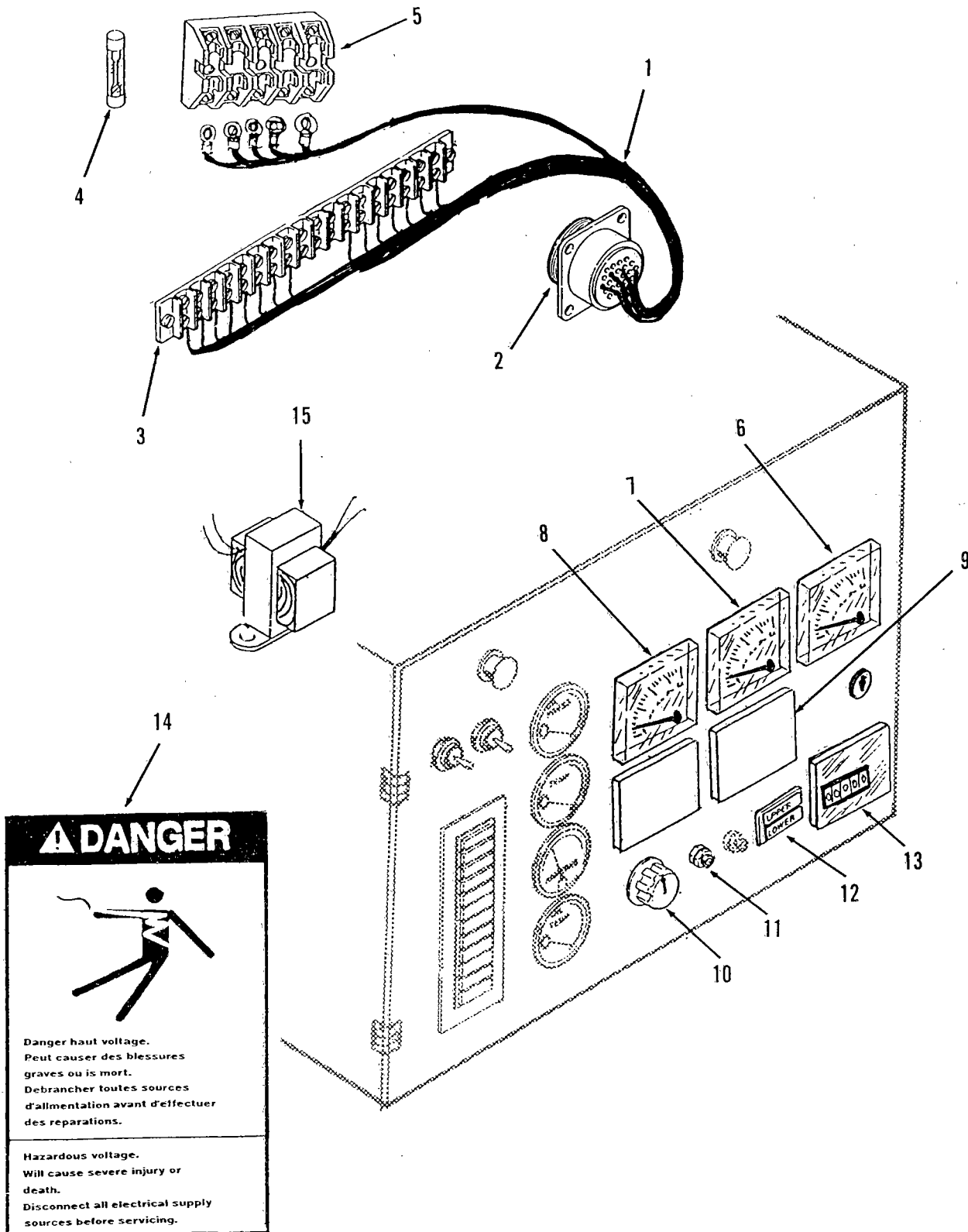
NFS - Not For Sale



Engine Control Components (Sets with Housing Enclosure)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-0625	1	Switch, Push (S12) [Run/Stop/Remote]	15	323-1134	1	Housing, Connector (P12)
2	308-0900	1	Switch, Push (S11) [Reset/Panel Light]		323-1192	4	Contact, Socket
3			Module, Indicator - Fault (Includes Harness with a Connector Housing & Contact Pins, Replaceable Lamps) (A12)		323-1195	10	Contact, Socket
	322-0358-02	1	24 VDC, 2 Light		323-1190	2	Key
	322-0360-02	1	24 VDC, 12 Light	16	338-1817	1	Harness, Wiring - Engine Monitor Board to Meters (Includes Connector Housing)
	815-0385	2	Attaching Parts for Module Screw, Machine - Round Head (#6-32 x 1/2")	17	323-1308	1	Housing, Connector (J4)
	870-0183	2	Nut, Self-locking - Hex (#6-32)		323-1302	15	Contact, Pin
4	323-1310	1	Housing, Connector (J3)	18			Harness, Wiring - Engine to Engine Monitor Board (Includes Connector Housings, Terminals and Contacts)
	323-1302	13	Contact, Pin		338-2244-01	1	Control with 2 Light Module
5	322-0369-02	1	Lamp, Incandescent - 1/3 Watt 28 VDC		338-2422-01	1	Control with 12 Light Module
6	303-0289	1	Rheostat - Speed Control (R23)	19	323-1207	1	Housing, Connector (P11)
7	193-0250	3	Resistor, Gauge (R11,R12,R15)		323-1195	22	Contact, Socket
8	193-0330	1	Gauge, Temperature - Oil, 12 VDC (M15) or		323-1190	1	Key
	302-1715	1	Tachometer (M16) or	20	323-1304	1	Housing, Connector (J2)
	302-1723	1	Gauge, Blank		323-1200	6	Contact, Pin
9	193-0351	1	Gauge, Temperature - Water, 12 VDC (M12)	21	323-1306	1	Housing, Connector (J1)
10	193-0352	1	Gauge, Pressure - Oil, 12 VDC (M11)		323-1200	8	Contact, Pin
11	302-1790	1	Ammeter (M13)	22			Board, Engine Monitor (A11) (Includes Fuses)
12	322-0017	1	Lamp, Incandescent - 28 VDC (DS10,DS11)		300-2808	1	24 VDC, 2 Light
13	322-0361	2	Holder, Lamp		300-2812	1	24 VDC, 12 Light
14			Harness, Wiring - Governor to Speed Control & Tachometer (Includes Connector Housing)	23	321-0270	2	Fuse, Cartridge - 20 Amp (F1, F2)
	338-2245-01	1	Control with 2 Light Module	24	321-0231	1	Fuse, Cartridge - 15 Amp (F3)
	338-2243-01	1	Control with 12 Light Module	25	321-0094	2	Fuse, Cartridge - 5 Amp (F4, F5)
					815-0544	4	Attaching Parts for Module Screw, Machine - Round Head With IT Lock Washer (#6-32 x 1/2")
				26	337-0049	1	Strap, Electrical - Ground

Generator Control Components (Sets without Housing Enclosure)



**Generator Control Components
(Sets without Housing Enclosure)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
1			Harness, Wiring (Includes Connector and Terminal Strip)	302-1839-09	1	0-300/0-600 Amp		
				302-1839-10	1	0-400/0-800 Amp		
	338-2240-01	1	Sets with 12 Lead Generator	302-1839-11	1	0-375/0-750 Amp		
	338-2241-01	1	Sets with 6 Lead Generator	302-1839-12	1	0-75/0-150 Amp		
2	323-1134	1	Housing, Connector (P21)	302-1839-13	1	0-100/0-200 Amp		
	323-1192	4	Contact, Socket	302-1839-14	1	0-150/0-300 Amp		
	323-1195	10	Contact, Socket	302-1839-15	1	0-200/0-400 Amp		
	323-1190	1	Key	302-1839-16	1	0-1500/0-3000 Amp		
3		1	Terminal, Strip (18 Place)	302-1839-17	1	0-2000/0-4000 Amp		
4	321-0293	5	Fuse F1 thru F5	302-1840-01	1	0-1200 Amp		
5	321-0294	1	Holder, Fuse	302-1840-02	1	0-1500 Amp		
6	302-1842	1	Meter, Frequency (M23)	302-1840-03	1	0-1600 Amp		
7	302-1841-03	1	Voltmeter (M21)	302-1840-04	1	0-2000 Amp		
8			Ammeter (M22)	302-1840-05	1	0-2500 Amp		
			Dual Scale	302-1840-07	1	0-3000 Amp		
	302-1839-01	1	0-500/0-1000 Amp	302-1840-08	1	0-4000 Amp		
	302-1839-02	1	0-600/0-1200 Amp	302-1840-09	1	0-5000 Amp		
	302-1839-03	1	0-750/0-1500 Amp	9	302-1849	2	Meter, Blank	
	302-1839-04	1	0-800/0-1600 Amp	10	308-0883	1	Switch, Rotary (S21)	
	302-1839-05	1	0-900/0-1800 Amp	11	303-0287	1	Rheostat (R21)	
	302-1839-06	1	0-1000/0-2000 Amp	12	322-0363	1	Light, Indicator - Dual (DS21, DS22)	
	302-1839-07	1	0-1200/0-2400 Amp	13	302-1850	1	Meter, Time Totalizing (M14)	
	302-1839-08	1	0-250/0-500 Amp	14	98-5724	2	Decal (Warning)	
	-cont-			15	315-0664	3	Transformer, Potential (T21 - T23)	